Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00000162	Isoform 1 of Protein C14orf120	S 142	100% (131.75)	1.0000	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00000162	Isoform 1 of Protein C14orf120	S 143	100% (133.10)	1.0000	4	5	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
IPI00000192	Isoform F of SON protein	S 1697	100% (92.15)	1.0000	21	17	6	2	0	0	0	0	4	3	0	0	0	0	5	1	0	0	0	0	5	2	0	0	0	0	3	2	0	0	0	0	4	1	0	0	0	0
IPI00000192	Isoform F of SON protein	S 2129	100% (61.62)	1.0000	4	9	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0
IPI00000279	Hypothetical protein LEREPO4	S 381	100% (1,000.00)	1.0000	5	7	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	0	0	1	0	0	0	0	2	1	0	0
IPI00000634	Coiled-coil domain-containing protein 6	S 240	100% (1,000.00)	1.0000	14	10	1	1	2	1	0	0	1	1	2	1	0	0	1	0	2	1	0	0	1	1	1	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0
IPI00000634	Coiled-coil domain-containing protein 6	S 244	100% (1,000.00)	1.0000	20	15	1	1	2	2	0	0	1	2	3	2	0	0	1	0	3	2	0	0	1	2	2	2	0	0	0	1	2	1	0	0	0	1	2	1	0	0
IPI00000634	Coiled-coil domain-containing protein 6	S 254	100% (65.44)	1.0000	1	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00000690	Isoform 1 of Programmed cell death protein 8, mitochondrial precursor	S 100	100% (1,000.00)	1.0000	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00000733	U3 small nucleolar RNA-associated protein 18 homolog	S 121	100% (1,000.00)	1.0000	24	24	1	1	5	1	1	0	1	1	5	1	1	0	1	1	4	0	0	0	0	1	4	1	1	0	1	1	5	1	1	0	1	1	5	1	1	0
IPI00000733	U3 small nucleolar RNA-associated protein 18 homolog	S 124	100% (1,000.00)	1.0000	21	21	1	1	4	1	1	0	1	1	4	1	1	0	1	1	3	0	0	0	0	1	3	1	1	0	1	1	4	1	1	0	1	1	4	1	0	0
IPI00000733	U3 small nucleolar RNA-associated protein 18 homolog	S 210	100% (71.86)	1.0000	4	5	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0
IPI00000856	Isoform 1 of Pleckstrin homology domain-containing family C member 1	S 351	100% (43.39)	1.0000	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00000856	Isoform 1 of Pleckstrin homology domain-containing family C member 1	S 666	100% (77.20)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00001159	GCN1-like protein 1	S 1390	100% (1,000.00)	1.0000	4	4	0	0	1	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0
IPI00001364	Isoform A of GC-rich sequence DNA-binding factor homolog	S 262	100% (1,000.00)	1.0000	10	10	0	2	0	0	0	0	0	4	0	0	0	0	1	3	0	0	0	0	1	3	0	0	0	0	0	4	0	0	0	0	1	1	0	0	0	0
IPI00001632	hypothetical protein LOC57648	S 545	100% (1,000.00)	1.0000	5	8	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0
IPI00001632	hypothetical protein LOC57648	S 929	100% (41.94)	1.0000	10	8	1	1	1	0	1	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0
IPI00001661	RCC1 protein	S 11	100% (1,000.00)	1.0000	21	18	2	1	1	4	0	0	1	1	2	2	0	0	1	1	2	3	0	0	1	0	2	2	0	0	1	0	1	2	0	0	2	1	2	4	0	0
IPI00001707	Isoform 1 of Bromodomain-containing protein 7	S 279	100% (1,000.00)	1.0000	10	9	0	2	2	0	0	0	0	2	2	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0
IPI00001735	nuclear receptor co-repressor 2	S 149	100% (89.11)	1.0000	9	6	1	0	0	0	0	0	4	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00001735	nuclear receptor co-repressor 2	S 152	100% (63.65)	1.0000	9	6	1	0	0	0	0	0	4	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00001735	nuclear receptor co-repressor 2	S 956	100% (1,000.00)	1.0000	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
IPI00001738	Nuclear pore complex protein Nup88	S 517	100% (1,000.00)	1.0000	6	6	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00001813	CTD-binding SR-like protein rA9	S 1229	100% (51.00)	1.0000	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00001813	CTD-binding SR-like protein rA9	S 1359	100% (1,000.00)	1.0000	7	5	2	1	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0
IPI00001813	CTD-binding SR-like protein rA9	S 1360	100% (1,000.00)	1.0000	12	8	3	4	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0
IPI00002054	132 kDa protein	S 1078	100% (1,000.00)	1.0000	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00002186	Brefeldin A-inhibited guanine nucleotide-exchange protein 2	S 227	100% (87.47)	1.0000	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00002188	Brefeldin A-inhibited guanine nucleotide-exchange protein 1	S 52	100% (40.19)	1.0000	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00002188	Brefeldin A-inhibited guanine nucleotide-exchange protein 1	S 1569	100% (55.13)	1.0000	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00002232	Isoform 1 of Serine/threonine-protein kinase TAO1	S 9	100% (1,000.00)	1.0000	3	1	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00002255	Lipopolysaccharide-responsive and beige-like anchor protein	S 10	100% (87.62)	1.0000	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00002255	Lipopolysaccharide-responsive and beige-like anchor protein	S 1261	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00002335	Huntingtin	S 1201	100% (63.24)	1.0000	7	8	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0
IPI00002349	FMRP interacting protein, 82kD	S 652	100% (38.16)	1.0000	16	12	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	0	0	1	1	1	1	0	1	1	1	0	1	0
IPI00002580	Phosphatidylinositol-4-phosphate 3-kinase C2 domain-containing alpha polypeptide	S 259	100% (38.19)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00002806	Isoform TAFII20 of Transcription initiation factor TFIID subunit 12	S 51	100% (79.03)	1.0000	3	7	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	2	0
IPI00002821	60S ribosomal protein L14	S 138	100% (1,000.00)	1.0000	6	5	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	1	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0
IPI00003373	Occludin	S 490	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00003441	Hypothetical protein ORF9 precursor	S 1103	100% (50.66)	1.0000	4	5	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00003515	Thyroid receptor-interacting protein 11	S 464	100% (44.44)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00003515	Thyroid receptor-interacting protein 11	S 1891	100% (57.33)	1.0000	7	5	2	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00003527	Ezrin-radixin-moesin-binding phosphoprotein 50	S 279	100% (1,000.00)	1.0000	3	6	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0
IPI00003627	Isoform 1 of Actin-like protein 6A	S 233	100% (1,000.00)	1.0000	2	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00003783	Dual specificity mitogen-activated protein kinase kinase 2	S 174	100% (1,000.00)	1.0000	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00003842	Isoform 1 of Microtubule-associated protein 2	S 1324	100% (1,000.00)	1.0000	5	3	1	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00003842	Isoform 1 of Microtubule-associated protein 2	S 1347	100% (1,000.00)	1.0000	5	7	1	0	0	0	0	0	3	0	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00003842	Isoform 1 of Microtubule-associated protein 2	S 1353	100% (1,000.00)	1.0000	8	7	2	0	0	0	0	0	4	0	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00003843	Isoform A1 of Tight junction protein ZO-2	S 130	100% (1,000.00)	1.0000	23	23	2	3	2	1	1	0	2	3	2	1	1	0	1	2	1	1	0	0	2	2	1	1	1	0	2	2	1	1	0	0	3	3	2	1	1	0
IPI00003843	Isoform A1 of Tight junction protein ZO-2	S 174	100% (44.28)	1.0000	2	5	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
IPI00003843	Isoform A1 of Tight junction protein ZO-2	S 244	100% (63.73)	1.0000	14	8	2	3	0	0	1	0	2	2	0	0	1	0	1	2	0	0	0	0	1	1	0	1	0	0	2	1	0	0	0	0	2	0	0	0	0	0
IPI00003843	Isoform A1 of Tight junction protein ZO-2	S 292	100% (57.99)	1.0000	3	3	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00003843	Isoform A1 of Tight junction protein ZO-2	S 294	100% (48.24)	1.0000	3	3	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00003843	Isoform A1 of Tight junction protein ZO-2	S 296	100% (62.24)	1.0000	3	3	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00003843	Isoform A1 of Tight junction protein ZO-2	S 413	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00003843	Isoform A1 of Tight junction protein ZO-2	S 415	100% (1,000.00)	1.0000	3	4	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00003843	Isoform A1 of Tight junction protein ZO-2	S 986	100% (1,000.00)	1.0000	38	32	4	4	1	2	1	0	5	5	0	1	2	0	5	5	1	1	1	0	4	5	0	1	0	0	4	4	1	1	0	0	4	5	1	2	0	0
IPI00003965	Ubiquitin carboxyl-terminal hydrolase 7	S 18	100% (92.92)	1.0000	13	14	1	2	0	0	0	0	2	2	0	0	0	0	2	4	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	0	3	3	0	0	0
IPI00004068	Mediator of RNA polymerase II transcription subunit 12	S 670	100% (1,000.00)	1.0000	3	5	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00004233	Isoform Long of Antigen KI-67	S 308	100% (106.19)	1.0000	9	25	1	0	0	2	0	0	1	0	0	1	0	0	1	0	1	2	0	0	3	1	2	3	0	0	1	1	2	3	0	0	3	1	2	3	0	0
IPI00004273	RNA binding motif protein 25	S 583	100% (1,000.00)	1.0000	33	21	1	14	0	0	0	0	0	10	0	0	0	0	0	8	0	0	0	0	0	10	0	0	0	0	0	6	0	0	0	0	0	5	0	0	0	0
IPI00004273	RNA binding motif protein 25	S 703	100% (1,000.00)	1.0000	2	3	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00004363	STE20/SPS1-related proline-alanine-rich protein kinase	S 387	100% (59.08)	1.0000	6	9	0	0	1	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0
IPI00004388	Tyrosine-protein phosphatase non-receptor type 21	S 637	100% (61.01)	1.0000	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00004497	Breakpoint cluster region protein	S 122	100% (1,000.00)	1.0000	10	12	2	0	0	0	1	0	1	0	1	0	2	0	2	0	0	0	1	0	2	0	0	1	1	0	2	1	0	1	0	0	2	0	0	0	2	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00004497	Breakpoint cluster region protein	S 993	100% (1,000.00)	1.0000	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00004795	Methylosome subunit pICln	S 102	100% (83.14)	1.0000	24	22	1	1	1	3	1	1	1	1	1	4	0	1	1	0	1	4	1	0	0	1	3	3	1	0	1	0	3	1	0	1	1	1	3	3	0
IPI00004970	Small subunit processome component 20 homolog	S 2601	100% (1,000.00)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00005024	Isoform 1 of Myb-binding protein 1A	S 775	100% (104.80)	1.0000	10	12	2	2	1	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	2	3	1	0	0	0	0	1	1	1	0	0	2	1	0	0	0	0	0	0	0	0
IPI00005260	proteasome (prosome, macropain) activator subunit 4	S 1007	100% (67.91)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00005264	Isoform 2 of Plakophilin-2	S 151	100% (1,000.00)	1.0000	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005264	Isoform 2 of Plakophilin-2	S 154	100% (1,000.00)	1.0000	2	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005264	Isoform 2 of Plakophilin-2	S 155	100% (1,000.00)	1.0000	2	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005605	Isoform 1 of Protein NDRG3	S 320	100% (1,000.00)	1.0000	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005614	Isoform Long of Spectrin beta chain, brain 1	S 2138	100% (44.78)	1.0000	5	6	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
IPI00005625	136 kDa protein	S 963	100% (1,000.00)	1.0000	27	37	2	3	1	2	0	0	2	6	1	1	0	0	4	5	0	0	0	0	4	6	0	1	0	0	3	9	1	1	0	0	6	5	1	0	0	0	0	0	0	0
IPI00005625	136 kDa protein	S 965	100% (1,000.00)	1.0000	30	33	2	5	1	2	0	0	2	6	1	1	0	0	3	7	0	0	0	0	3	5	0	1	0	0	3	8	1	1	0	0	5	5	1	0	0	0	0	0	0	0
IPI00005625	136 kDa protein	S 992	100% (80.41)	1.0000	21	25	1	3	1	1	0	0	3	2	2	1	0	0	2	4	0	1	0	0	2	4	0	1	0	0	4	3	1	1	0	0	3	4	1	1	0	0	0	0	0	0
IPI00005648	Scaffold attachment factor B2	S 226	100% (1,000.00)	1.0000	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00005681	PREDICTED: similar to basic leucine zipper and W2 domains 1	S 290	100% (1,000.00)	1.0000	5	8	0	0	0	1	0	0	1	0	0	2	0	0	0	0	0	1	0	0	0	0	2	2	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	0	0
IPI00005681	PREDICTED: similar to basic leucine zipper and W2 domains 1	S 292	100% (1,000.00)	1.0000	4	7	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0	0
IPI00005792	poly(A) binding protein, nuclear 1	S 150	100% (91.91)	1.0000	6	7	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	0
IPI00005826	HECT domain and RCC1-like domain-containing protein 2	S 2454	100% (130.56)	1.0000	6	11	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	5	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
IPI00005826	HECT domain and RCC1-like domain-containing protein 2	S 2650	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005861	Isoform 1 of U4/U6 small nuclear ribonucleoprotein Prp3	S 619	100% (1,000.00)	1.0000	19	17	3	2	1	0	1	0	1	3	1	0	0	0	2	4	1	0	0	0	2	3	2	1	0	0	1	2	0	0	1	0	1	3	1	0	0	0	0	0	0	0
IPI00006029	Isoform 1 of Forkhead box protein K2	S 393	100% (1,000.00)	1.0000	9	12	0	1	0	1	0	0	1	1	1	1	0	0	1	1	0	1	0	0	1	1	1	1	0	0	1	1	1	1	0	0	1	1	1	1	0	0	0	0	0	0
IPI00006079	Isoform 1 of Bcl-2-associated transcription factor 1	S 177	100% (1,000.00)	1.0000	46	42	4	4	3	1	0	0	4	4	3	2	0	0	3	4	12	2	0	0	2	5	3	3	0	0	4	3	3	2	1	1	2	4	4	3	0	2	0	0	0	0
IPI00006079	Isoform 1 of Bcl-2-associated transcription factor 1	S 397	100% (79.02)	1.0000	55	51	6	7	3	0	1	0	7	8	4	0	1	0	5	7	3	0	3	0	5	6	4	0	1	0	6	6	3	1	1	1	6	6	3	0	1	1	0	0	0	0
IPI00006122	Isoform MEA6 of Cutaneous T-cell lymphoma-associated antigen 5	S 536	100% (44.44)	1.0000	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00006196	Isoform 2 of Nuclear mitotic apparatus protein 1	S 271	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00006213	Pericentriol material 1	S 534	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00006213	Pericentriol material 1	S 1730	100% (98.23)	1.0000	2	5	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
IPI00006280	SREBP cleavage-activating protein	S 822	100% (76.73)	1.0000	5	1	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00006298	Isoform 1 of Peptidyl-prolyl cis-trans isomerase G	S 716	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00006298	Isoform 1 of Peptidyl-prolyl cis-trans isomerase G	S 717	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00006298	Isoform 1 of Peptidyl-prolyl cis-trans isomerase G	S 744	100% (1,000.00)	1.0000	15	12	1	2	1	0	0	0	1	2	1	1	0	0	0	5	0	1	0	0	2	2	0	0	0	0	1	4	1	0	0	0	0	2	0	0	0	0	0	0	0	0
IPI00006298	Isoform 1 of Peptidyl-prolyl cis-trans isomerase G	S 745	100% (1,000.00)	1.0000	21	15	1	2	1	0	0	0	1	7	1	1	0	0	0	6	0	1	0	0	2	3	0	0	0	0	1	5	1	0	0	0	0	3	0	0	0	0	0	0	0	0
IPI00006298	Isoform 1 of Peptidyl-prolyl cis-trans isomerase G	S 753	100% (77.53)	1.0000	19	18	1	7	1	0	0	0	1	3	0	0	0	0	0	5	0	1	0	0	2	7	0	0	0	0	1	3	1	0	0	0	0	4	0	0	0	0	0	0	0	0
IPI00006482	Isoform Long of Sodium/potassium-transporting ATPase alpha-1 chain precursor	S 16	100% (62.66)	1.0000	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00006715	Double-strand-break repair protein rad21 homolog	S 545	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00006752	Isoform 1 of Mitogen-activated protein kinase kinase kinase kinase 4	S 639	100% (119.54)	1.0000	10	7	2	1	0	0	0	0	2	1	0	0	0	0	2	2	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
IPI00006865	Vesicle trafficking protein SEC22b	S 136	100% (38.16)	1.0000	4	7	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	0
IPI00006987	ATP-dependent RNA helicase DDX24	S 82	100% (1,000.00)	1.0000	39	25	5	5	1	0	1	0	6	3	2	0	2	0	6	6	0	0	2	0	4	7	0	0	1	0	2	3	0	0	1	0	4	3	0	0	0	0	0	0	0	0
IPI00007248	Pleckstrin homology domain-containing family A member 6	S 867	100% (72.55)	1.0000	3	7	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00007334	Isoform 1 of Apoptotic chromatin condensation inducer in the nucleus	S 216	100% (77.35)	1.0000	13	15	1	1	0	1	1	0	1	1	1	1	1	0	1	1	0	1	1	0	2	1	1	1	1	0	1	0	1	2	1	0	1	1	1	0	1	0	0	0	0	0
IPI00007334	Isoform 1 of Apoptotic chromatin condensation inducer in the nucleus	S 240	100% (96.50)	1.0000	9	8	2	0	0	0	0	0	4	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
IPI00007334	Isoform 1 of Apoptotic chromatin condensation inducer in the nucleus	S 243	100% (94.80)	1.0000	9	12	2	0	0	0	0	0	3	0	0	0	0	0	3	1	0	0	0	0	4	0	0	0	0	0	4	1	0	0	0	0	3	0	0	0	0	0	0	0	0	0
IPI00007334	Isoform 1 of Apoptotic chromatin condensation inducer in the nucleus	S 490	100% (65.85)	1.0000	10	7	2	2	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0
IPI00007334	Isoform 1 of Apoptotic chromatin condensation inducer in the nucleus	S 655	100% (40.80)	1.0000	3	2	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00007334	Isoform 1 of Apoptotic chromatin condensation inducer in the nucleus	S 898	100% (49.79)	1.0000	4	1	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00007334	Isoform 1 of Apoptotic chromatin condensation inducer in the nucleus	S 1004	100% (79.02)	1.0000	21	19	3	2	2	1	0	0	2	1	2	1	0	0	2	2	2	1	0	0	2	2	2	0	0	0	2	2	2	0	0	0	3	2	2	0	0	0	0	0	0	0
IPI00007675	Cytoplasmic dynein 1 light intermediate chain 1	S 207	100% (88.73)	1.0000	10	12	0	0	4	0	0	0	0	0	3	0	0	0	0	0	2	1	0	0	0	1	3	0	0	0	0	2	3	0	0	0	0	1	2	0	0	0	0	0	0	0
IPI00007702	Heat shock-related 70 kDa protein 2	S 86	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00008200	Isoform 1 of YEATS domain-containing protein 2	S 627	100% (1,000.00)	1.0000	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00008231	Chromosome 1 open reading frame 9	S 1255	100% (50.66)	1.0000	4	5	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
IPI00008475	Hydroxymethylglutaryl-CoA synthase, cytoplasmic	S 516	100% (58.87)	1.0000	1	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
IPI00008529	60S acidic ribosomal protein P2	S 102	100% (1,000.00)	1.0000	6	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	7	1	0	0	0	0	1	0	0	3	0	0	2	0	0	0	0	0
IPI00008529	60S acidic ribosomal protein P2	S 105	100% (1,000.00)	1.0000	35	37	1	0	0	0	8	1	0	0	0	1	7	1	1	0	0	0	12	3	0	0	0	0	12	3	0	0	0	0	6	3	0	3	0	1	8	1	0	0	0	0
IPI00008530	60S acidic ribosomal protein P0	S 304	100% (1,000.00)	1.0000	8	7	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	6	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
IPI00008530	60S acidic ribosomal protein P0	S 307	100% (1,000.00)	1.0000	12	14	0	0	0	2	0	0	0	1	0	1	0	0	0	0	0	8	0	0	0	0	0	7	0	0	0	0	0	3	0	0	0	2	0	2	0	0	0	0	0	0
IPI00008531	REST corepressor 1	S 257	100% (1,000.00)	1.0000	11	14	0	0	3	0	0	0	0	0	2	0	0	0	1	0	4	1	0	0	0	0	4	1	0	0	0	1	4	0	0	0	0	1	3	0	0	0	0	0	0	0
IPI00008708	Ribosomal L1 domain-containing protein 1	S 392	100% (88.19)	1.0000	12	19	0	0	3	0	0	0	0	2	5	0	0	0	1	0	1	0	0	0	1	1	2	0	0	0	1	3	3	0	0	0	1	3	4	0	0	0	0	0	0	0
IPI00008708	Ribosomal L1 domain-containing protein 1	S 396	100% (71.29)	1.0000	5	12	0	0	1	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0	1	1	2	0	0	0	0	1	3	0	0	0	0	0	0	0
IPI00008865	PDZ domain-containing guanine nucleotide exchange factor I	S 280	100% (1,000.00)	1.0000	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00008868	Microtubule-associated protein 1B	S 1779	100% (84.88)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00008868	Microtubule-associated protein 1B	S 2209	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00008868	Microtubule-associated protein 1B	S 2211	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00008918	Isoform Beta of LIM domain and actin-binding protein 1	S 132	100% (1,000.00)	1.0000	14	12	1	2	1	0	0	0	0	2	1	0	1	0	0	3	2	1	0	0	0	3	0	0	0	0	1	1	1	0	1	0	0	3	1	0	1	0	0	0	0	0
IPI00008918	Isoform Beta of LIM domain and actin-binding protein 1	S 362	100% (63.27)	1.0000	26	33	2	4	1	0	1	0	2	4	1	1	1	0	1	5	1	1	1	0	1	4	3	2	1	0	2	5	2	2	2	0	1	3	2	1	1	1	0	0	0	0
IPI00008918	Isoform Beta of LIM domain and actin-binding protein 1	S 365	100% (86.37)	1.0000	3	5	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00008998	HSPC121	S 114	100% (1,000.00)	1.0000	38	36	4	4	2	1	0	0	6	4	2	1	0	0	6	4	3	1	0	0	9	3	1	1	0	0	6	3	1	1	0	0	6	3	1	1	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00009032	Lupus La protein	S 366	100% (101.71)	1.0000	113	103	2	3	9	21	2	0	2	3	10	17	2	1	3	3	15	18	2	0	1	3	12	17	2	0	1	2	10	19	1	0	1	2	12	19	1	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	S 1583	100% (1,000.00)	1.0000	2	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	S 1679	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00009326	65 kDa Yes-associated protein	S 251	100% (101.40)	1.0000	2	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00009505	Isoform 1 of Beta-2-syntrophin	S 95	100% (1,000.00)	1.0000	3	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00009505	Isoform 1 of Beta-2-syntrophin	S 110	100% (1,000.00)	1.0000	7	2	0	0	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00009772	BET1-like protein	S 9	100% (1,000.00)	1.0000	9	7	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	0	3	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	1	1
IPI00009790	6-phosphofructokinase type C	S 386	100% (109.53)	1.0000	16	16	0	2	2	0	0	0	1	3	4	0	0	0	0	1	3	0	0	0	0	3	4	0	0	0	0	4	1	0	0	0	3	1	0	0	0	0
IPI00009866	Isoform 1 of Keratin, type I cytoskeletal 13	S 440	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00009917	Isoform 3 of LAS1-like protein	S 501	100% (1,000.00)	1.0000	2	4	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0
IPI00010080	Serine/threonine-protein kinase OSR1	S 339	100% (79.03)	1.0000	24	12	1	1	4	2	0	0	2	2	5	0	0	0	1	0	4	2	0	0	1	1	3	1	0	0	1	1	2	1	0	0	0	0	1	0	0	0
IPI00010088	Histone deacetylase 4	S 565	100% (1,000.00)	1.0000	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010241	WW domain-containing adapter with a coiled-coil region, isoform 1	S 53	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00010252	Isoform Alpha of Transcription intermediary factor 1-gamma	S 753	100% (1,000.00)	1.0000	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010252	Isoform Alpha of Transcription intermediary factor 1-gamma	S 756	100% (1,000.00)	1.0000	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010252	Isoform Alpha of Transcription intermediary factor 1-gamma	S 757	100% (1,000.00)	1.0000	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010338	Tissue factor precursor	S 295	100% (81.60)	1.0000	3	6	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	1	0	0	0
IPI00010400	1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase beta 3	S 537	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010414	PDZ and LIM domain protein 1	S 89	100% (87.62)	1.0000	15	23	0	0	0	4	1	0	0	0	0	5	2	0	0	0	0	3	0	0	0	0	1	3	2	0	0	0	2	5	2	0	0	0	1	6	1	0
IPI00010471	Plastin-2	S 256	100% (1,000.00)	1.0000	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00010486	Isoform 1 of Hermansky-Pudlak syndrome 5 protein	S 695	100% (56.04)	1.0000	4	2	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00010544	Isoform 1 of Tight junction-associated protein 1	S 300	100% (1,000.00)	1.0000	9	7	0	1	1	1	0	0	1	1	1	1	0	0	1	1	0	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00010700	Isoform 1 of Large proline-rich protein BAT2	S 342	100% (1,000.00)	1.0000	15	16	3	2	0	0	0	0	3	3	0	0	0	0	2	2	0	0	0	0	1	1	0	0	0	0	4	3	1	0	0	0	3	2	1	0	0	0
IPI00010700	Isoform 1 of Large proline-rich protein BAT2	S 350	100% (1,000.00)	1.0000	15	16	3	2	0	0	0	0	3	3	0	0	0	0	2	2	0	0	0	0	1	1	0	0	0	0	4	3	1	0	0	0	3	2	1	0	0	0
IPI00010728	203 kDa protein	S 1324	100% (1,000.00)	1.0000	5	3	1	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00010728	203 kDa protein	S 1347	100% (1,000.00)	1.0000	5	7	1	0	0	0	0	0	3	0	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00010728	203 kDa protein	S 1353	100% (1,000.00)	1.0000	8	7	2	0	0	0	0	0	4	0	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00010882	Isoform DFF45 of DNA fragmentation factor alpha subunit (Fragment)	S 315	100% (1,000.00)	1.0000	6	4	0	0	0	2	0	0	0	0	0	2	1	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00010906	CLN3 protein	S 179	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010906	CLN3 protein	S 181	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00011118	Ribonucleoside-diphosphate reductase M2 subunit	S 80	100% (43.45)	1.0000	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00011461	Isoform Beta of Striatin-3	S 229	100% (1,000.00)	1.0000	2	3	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00011593	Fos-related antigen 2	S 120	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00011593	Fos-related antigen 2	S 200	100% (1,000.00)	1.0000	7	9	0	0	0	2	0	0	0	0	0	2	0	0	0	0	3	0	0	0	0	0	0	4	0	0	0	0	2	0	0	0	0	0	3	0	0	0
IPI00011675	Isoform Sp100-HMG of Nuclear autoantigen Sp-100	S 157	100% (1,000.00)	1.0000	13	10	0	0	3	1	0	0	0	1	4	0	0	0	0	2	2	0	0	0	0	1	1	0	0	0	0	1	3	1	0	0	0	0	3	0	0	0
IPI00011675	Isoform Sp100-HMG of Nuclear autoantigen Sp-100	S 362	100% (96.84)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00011675	Isoform Sp100-HMG of Nuclear autoantigen Sp-100	S 410	100% (72.43)	1.0000	3	3	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00011689	Elongation factor 2 kinase	S 18	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00011898	Translation initiation factor eIF-2B subunit epsilon	S 544	100% (1,000.00)	1.0000	9	7	0	1	1	0	0	0	0	1	1	0	0	0	0	2	3	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0
IPI00011938	Isoform 1 of Adenylate cyclase type 6	S 576	100% (1,000.00)	1.0000	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00012149	U3 small nucleolar ribonucleoprotein protein MPP10	S 242	100% (48.48)	1.0000	3	3	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00012199	Hypothetical protein FLJ22321	S 58	100% (1,000.00)	1.0000	9	11	0	1	2	1	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	1	2	1	0	0	0	2	1	1	0	0	0	1	1	1	0	0
IPI00012199	Hypothetical protein FLJ22321	S 80	100% (1,000.00)	1.0000	5	6	0	0	2	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0
IPI00012199	Hypothetical protein FLJ22321	S 91	100% (1,000.00)	1.0000	21	25	0	0	6	2	0	0	0	1	6	1	0	0	0	1	4	0	0	0	0	1	4	2	1	0	0	1	4	1	2	1	0	1	4	2	1	0
IPI00012199	Hypothetical protein FLJ22321	S 102	100% (1,000.00)	1.0000	7	10	0	0	2	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	1	3	0	0	0	0	1	4	0	0	0	0	0	1	0	0	0
IPI00012200	MGC2477 protein	S 159	100% (1,000.00)	1.0000	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00012268	26S proteasome non-ATPase regulatory subunit 2	S 16	100% (82.76)	1.0000	20	25	1	4	0	0	0	0	2	4	0	0	0	0	3	5	0	1	0	0	2	5	0	1	0	0	2	3	2	1	1	0	2	4	0	1	0	1
IPI00012645	Isoform 1 of Spectrin beta chain, brain 2	S 2171	100% (91.09)	1.0000	17	15	5	1	0	0	0	0	5	1	0	0	0	0	4	1	0	0	0	0	5	0	0	0	0	0	4	0	0	1	0	0	4	1	0	0	0	0
IPI00012645	Isoform 1 of Spectrin beta chain, brain 2	S 2359	100% (46.62)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00013122	Hsp90 co-chaperone Cdc37	S 377	100% (63.58)	1.0000	2	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00013184	N-terminal acetyltransferase complex ARD1 subunit homolog A	S 182	100% (1,000.00)	1.0000	1	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0
IPI00013214	DNA replication licensing factor MCM3	S 668	100% (1,000.00)	1.0000	7	5	0	2	0	0	0	0	0	1	0	0	0	0	4	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0
IPI00013214	DNA replication licensing factor MCM3	S 672	100% (1,000.00)	1.0000	56	51	6	11	3	0	0	0	5	14	1	0	0	0	4	12	0	0	0	0	4	12	1	1	0	0	2	9	1	0	1	0	4	13	2	1	0	0
IPI00013269	Isoform 1 of Protein C6orf106	S 215	100% (1,000.00)	1.0000	3	3	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00013272	Isoform 1 of Golgin subfamily A member 4	S 71	100% (47.36)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00013439	Transcription factor jun-B	S 259	100% (1,000.00)	1.0000	7	7	0	0	0	2	0	0	0	0	0	2	0	0	0	0	3	0	0	0	0	0	0	2	0	0	0	0	3	0	0	0	0	0	2	0	0	0
IPI00013721	Serine/threonine-protein kinase PRP4 homolog	S 20	100% (1,000.00)	1.0000	12	12	2	1	0	0	0	0	2	3	0	0	0	0	2	2	0	0	0	0	1	1	0	0	0	0	3	3	0	0	0	0	2	2	0	0	0	0
IPI00013721	Serine/threonine-protein kinase PRP4 homolog	S 87	100% (1,000.00)	1.0000	2	3	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
IPI00013721	Serine/threonine-protein kinase PRP4 homolog	S 93	100% (1,000.00)	1.0000	14	15	2	3	0	0	0	0	3	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	4	2	0	0	0	0	3	2	0	0	0	0
IPI00013721	Serine/threonine-protein kinase PRP4 homolog	S 277	100% (60.94)	1.0000	7	7	2	2	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	2	2	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00013743	Hypothetical protein BUD13	S 151	100% (82.59)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00013743	Hypothetical protein BUD13	S 163	100% (1,000.00)	1.0000	8	17	1	1	0	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1	2	0	0	0	2	3	2	1	0	0	1	3	1	0	0	0
IPI00013743	Hypothetical protein BUD13	S 197	100% (1,000.00)	1.0000	13	20	0	1	2	0	0	0	1	2	2	0	0	0	1	2	2	0	0	0	1	3	3	0	0	0	0	2	2	2	0	0	0	5	2	0	0	0
IPI00013743	Hypothetical protein BUD13	S 201	100% (1,000.00)	1.0000	14	25	0	1	2	0	0	0	1	2	2	0	0	0	1	3	2	0	0	0	1	5	4	0	0	0	0	2	3	2	0	0	0	6	2	0	0	0
IPI00013743	Hypothetical protein BUD13	S 222	100% (1,000.00)	1.0000	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00013743	Hypothetical protein BUD13	S 226	100% (1,000.00)	1.0000	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR															
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00013743	Hypothetical protein BUD13	S 271	100% (109.41)	1.0000	19	17	2	3	1	0	0	0	2	3	2	0	0	0	2	3	1	0	0	0	2	3	1	0	0	0	2	3	1	0	0	0	1	3	1	0	0	0
IPI00013743	Hypothetical protein BUD13	S 325	100% (78.75)	1.0000	10	8	1	2	1	0	0	0	1	2	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0
IPI00013774	Histone deacetylase 1	S 393	100% (1,000.00)	1.0000	41	48	2	2	8	2	0	0	2	1	10	2	0	0	2	2	6	2	0	0	2	2	9	0	0	0	2	4	9	2	0	0	2	2	11	2	0	1
IPI00013788	HIV TAT specific factor 1	S 579	100% (1,000.00)	1.0000	7	8	1	2	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	2	2	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0
IPI00013788	HIV TAT specific factor 1	S 597	100% (1,000.00)	1.0000	4	6	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0
IPI00013788	HIV TAT specific factor 1	S 600	100% (1,000.00)	1.0000	4	6	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0
IPI00013788	HIV TAT specific factor 1	S 607	100% (1,000.00)	1.0000	1	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00013788	HIV TAT specific factor 1	S 616	100% (1,000.00)	1.0000	11	11	1	3	1	0	0	0	1	1	0	1	0	0	0	2	1	0	0	0	1	2	0	1	0	0	1	1	1	1	0	0	1	1	1	0	0	0
IPI00013788	HIV TAT specific factor 1	S 624	100% (124.12)	1.0000	27	27	3	4	2	0	1	0	3	3	1	1	1	0	2	4	1	1	0	0	3	3	1	2	0	0	3	4	1	2	0	0	3	3	2	0	0	0
IPI00013788	HIV TAT specific factor 1	S 642	100% (70.57)	1.0000	30	29	2	3	2	1	2	0	4	2	0	2	1	0	3	3	1	2	2	0	2	3	3	3	0	0	2	4	1	1	1	0	2	4	1	1	0	1
IPI00013788	HIV TAT specific factor 1	S 676	100% (1,000.00)	1.0000	19	19	2	5	0	0	0	0	1	5	0	0	0	0	1	5	0	0	0	0	2	6	0	0	0	0	1	4	0	0	0	0	1	5	0	0	0	0
IPI00013788	HIV TAT specific factor 1	S 702	100% (1,000.00)	1.0000	11	8	2	3	0	0	0	0	0	3	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0
IPI00013788	HIV TAT specific factor 1	S 713	100% (60.30)	1.0000	10	14	0	4	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	6	0	0	0	0	0	3	0	0	0	0	0	5	0	0	0	0
IPI00013788	HIV TAT specific factor 1	S 714	100% (61.68)	1.0000	8	5	0	2	0	0	0	0	0	4	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00013830	SNW domain-containing protein 1	S 224	100% (71.03)	1.0000	59	67	6	2	7	4	0	0	2	4	8	4	1	0	6	5	5	5	0	0	1	4	10	4	0	0	3	6	11	5	0	0	3	5	8	6	0	1
IPI00013881	heterogeneous nuclear ribonucleoprotein H1	S 63	100% (90.73)	1.0000	5	9	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	2	1	0	0	0	0	1	2	0	0
IPI00013894	Stress-induced-phosphoprotein 1	S 481	100% (1,000.00)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00013905	5'-AMP-activated protein kinase subunit beta-2	S 108	100% (42.34)	1.0000	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00013933	Isoform DPI of Desmoplakin	S 22	100% (1,000.00)	1.0000	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00013949	Small glutamine-rich tetratricopeptide repeat-containing protein A	S 77	100% (1,000.00)	1.0000	2	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00014177	Septin-2	S 218	100% (93.60)	1.0000	44	53	4	1	3	4	1	1	3	2	3	5	1	1	3	2	3	6	1	0	3	1	3	7	1	0	3	2	4	7	1	1	3	2	4	9	1	1
IPI00014456	Striatin	S 245	100% (60.94)	1.0000	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00014513	Transcriptional repressor protein YY1	S 118	100% (1,000.00)	1.0000	5	6	0	0	1	0	0	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	1	1	1	0
IPI00014843	leucine rich repeat containing 16	S 1286	100% (86.34)	1.0000	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00014850	Astrocytic phosphoprotein PEA-15	S 116	100% (1,000.00)	1.0000	4	4	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	2	0
IPI00015029	Prostaglandin E synthase 3	S 113	100% (61.30)	1.0000	38	57	2	0	0	0	7	2	2	0	0	0	7	1	0	0	0	0	12	5	1	0	0	1	17	6	0	0	0	1	12	2	1	1	0	1	12	2
IPI00015195	Cleavage stimulation factor, 77 kDa subunit	S 691	100% (1,000.00)	1.0000	16	18	1	2	2	0	0	0	1	3	2	0	0	0	1	2	2	0	0	0	1	3	3	0	0	0	1	2	2	0	0	0	1	2	2	0	0	1
IPI00015286	Dedicator of cytokinesis protein 1	S 1681	100% (1,000.00)	1.0000	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00015793	Isoform 1 of Telomerase-binding protein EST1A	S 831	100% (1,000.00)	1.0000	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00015806	Isoform 1 of General transcription factor 3C polypeptide 3	S 43	100% (137.50)	1.0000	12	11	2	2	0	0	0	0	2	2	0	0	0	0	1	2	0	0	1	0	2	2	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0
IPI00015905	Exosome complex exonuclease RRP4	S 124	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00015924	Isoform 1 of Tuftelin-interacting protein 11	S 98	100% (1,000.00)	1.0000	9	6	1	2	0	0	1	0	1	1	0	0	1	0	0	1	0	0	1	0	1	1	0	0	0	0	1	0	0	0	1	0	0	1	0	0	1	0
IPI00015924	Isoform 1 of Tuftelin-interacting protein 11	S 210	100% (90.94)	1.0000	9	5	0	3	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00015953	Isoform 1 of Nucleolar RNA helicase 2	S 71	100% (90.26)	1.0000	22	34	3	3	0	1	0	0	4	3	0	1	0	0	3	4	0	0	0	0	7	4	1	1	0	0	5	4	2	1	0	0	4	3	2	0	0	0
IPI00015953	Isoform 1 of Nucleolar RNA helicase 2	S 89	100% (65.44)	1.0000	28	30	3	4	1	1	0	0	4	3	0	1	0	0	4	5	0	1	1	0	4	2	2	2	0	0	3	4	1	2	1	0	4	2	2	1	0	0
IPI00015953	Isoform 1 of Nucleolar RNA helicase 2	S 121	100% (1,000.00)	1.0000	31	41	4	4	1	0	1	0	5	4	2	1	0	0	4	3	1	1	0	0	5	4	1	2	1	0	4	5	1	1	1	1	6	4	1	1	1	2
IPI00015953	Isoform 1 of Nucleolar RNA helicase 2	S 667	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00016074	M-phase phosphoprotein 6	S 110	100% (104.07)	1.0000	5	9	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	2	1
IPI00016387	pre-mRNA cleavage complex II protein Pcf11	S 494	100% (81.69)	1.0000	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00016405	Hypothetical protein FLJ20455	S 108	100% (1,000.00)	1.0000	8	5	0	0	0	2	1	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	2	1	0
IPI00016570	Isoform 3 of Bromodomain-containing protein 8	S 281	100% (1,000.00)	1.0000	2	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00016702	Rab6 GTPase activating protein, GAPCenA	S 288	100% (80.38)	1.0000	5	7	1	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0
IPI00016702	Rab6 GTPase activating protein, GAPCenA	S 738	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00016725	General transcription factor 3C polypeptide 4	S 611	100% (102.50)	1.0000	2	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00016802	NAD-dependent deacetylase sirtuin-1	S 47	100% (1,000.00)	1.0000	2	4	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
IPI00016859	Isoform 1 of Transcription factor IIIB 90 kDa subunit	S 345	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00016910	Eukaryotic translation initiation factor 3 subunit 8	S 39	100% (76.27)	1.0000	23	20	1	5	0	1	1	0	1	4	1	0	1	0	1	4	1	1	1	0	0	4	1	1	1	0	0	3	1	2	1	0	0	2	1	2	1	0
IPI00016910	Eukaryotic translation initiation factor 3 subunit 8	S 166	100% (1,000.00)	1.0000	2	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00016932	inositol polyphosphate phosphatase-like 1	S 132	100% (1,000.00)	1.0000	7	8	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	3	1	0	0	0	0	2	0	0	0	0	0
IPI00017030	Isoform 1 of Myosin-18A	S 1973	100% (1,000.00)	1.0000	7	4	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00017030	Isoform 1 of Myosin-18A	S 1977	100% (1,000.00)	1.0000	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00017292	Isoform 1 of Beta-catenin	S 191	100% (76.29)	1.0000	5	7	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0
IPI00017451	Splicing factor 3 subunit 1	S 329	100% (110.56)	1.0000	64	52	2	21	2	0	0	0	4	14	1	0	0	0	4	16	0	0	0	0	3	14	1	0	0	0	3	13	2	0	0	0	4	12	0	0	0	0
IPI00017451	Splicing factor 3 subunit 1	S 451	100% (74.47)	1.0000	5	5	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0
IPI00017746	BRCA1-associated RING domain protein 1	S 704	100% (1,000.00)	1.0000	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00018098	Novel protein	S 527	100% (67.76)	1.0000	14	16	1	1	4	0	0	0	1	2	2	0	0	0	1	1	1	0	0	0	0	3	2	0	0	0	0	1	4	0	0	0	0	2	4	0	0	0
IPI00018098	Novel protein	S 529	100% (61.30)	1.0000	19	21	0	3	3	0	0	0	1	3	3	0	0	0	2	4	0	0	0	0	0	3	3	0	0	0	0	3	4	0	0	0	1	3	4	0	0	0
IPI00018192	Isoform 1 of WD-repeat protein 74	S 361	100% (74.92)	1.0000	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00018240	CDNA FLJ10498 fis, clone NT2RP2000328	S 525	100% (49.68)	1.0000	14	7	0	3	4	0	0	0	0	1	2	0	0	0	1	2	1	0	0	0	0	1	0	0	1	0	0	4	0	0	0	0	0	1	0	0	0	0
IPI00018321	Isoform 1 of Histone-lysine N-methyltransferase, H3 lysine-9 specific 4	S 1190	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00018370	Isoform 2 of Supervillin	S 270	100% (75.09)	1.0000	20	21	4	1	0	0	0	0	4	1	1	1	0	0	5	1	1	1	0	0	4	2	1	0	0	0	3	1	1	1	0	0	4	2	2	0	0	0
IPI00018370	Isoform 2 of Supervillin	S 313	100% (1,000.00)	1.0000	5	1	1	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00018370	Isoform 2 of Supervillin	S 896	100% (124.44)	1.0000	9	12	2	1	0	0	0	0	2	0	0	0	0	0	2	2	0	0	0	0	3	2	0	0	0	0	2	2	0	0	0	0	0	3	0	0	0	0
IPI00018914	Tyrosine-protein phosphatase non-receptor type 14	S 642	100% (53.63)	1.0000	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00019205	Protein C14orf4	S 547	100% (72.73)	1.0000	14	13	1	2	0	0	0	0	2	4	0	0	0	0	1	2	2	0	0	0	1	2	1	0	0	0	0	2	1	0	0	0	1	0	3	1	0	0
IPI00019502	Myosin-9	S 1510	100% (52.59)	1.0000	3	3	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00019502	Myosin-9	S 1511	100% (49.35)	1.0000	3	3	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00019502	Myosin-9	S 1942	100% (1,000.00)	1.0000	42	27	9	4	1	0	0	0	14	4	0	0	0	0	8	1	1	0	0	0	8	1	1	0	0	0	8	0	0	0	0	1	8	0	0	0	0	0
IPI00019540	Isoform 4 of SAPS domain family member 3	S 537	100% (1,000.00)	1.0000	10	10	1	2	1	0	0	0	1	1	1	0	0	0	1	2	0	0	0	0	1	2	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0
IPI00019906	Isoform 2 of Basigin precursor	S 246	100% (1,000.00)	1.0000	11	12	0	0	2	1	0	0	0	0	2	2	0	0	0	0	3	1	0	0	0	0	4	1	0	0	0	0	2	1	0	0	0	0	3	1	0	0
IPI00019996	modulator of estrogen induced transcription isoform b	S 271	100% (1,000.00)	1.0000	27	38	2	4	1	2	0	0	3	3	1	1	0	0	4	5	0	1	0	0	5	5	1	1	0	0	4	4	1	2	1	0	5	6	2	1	0	0
IPI00019996	modulator of estrogen induced transcription isoform b	S 535	100% (92.63)	1.0000	35	37	7	6	1	0	0	0	4	6	1	0	0	0	6	3	1	0	0	0	5	4	1	0	0	0	6	6	0	0	0	0	7	7	1	0	0	0
IPI00020021	Protein DEK	S 32	100% (1,000.00)	1.0000	26	35	0	0	3	3	2	0	1	0	2	4	2	0	1	0	2	4	2	0	1	0	5	5	2	2	1	0	5	4	2	0	0	0	3	3	2	0
IPI00020021	Protein DEK	S 51	100% (1,000.00)	1.0000	1	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
IPI00020021	Protein DEK	S 243	100% (1,000.00)	1.0000	4	10	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	4	0	0	0	0	0	1	0	0	0	0	1	2	0	0
IPI00020021	Protein DEK	S 244	100% (1,000.00)	1.0000	4	10	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	4	0	0	0	0	0	1	0	0	0	0	1	2	0	0
IPI00020021	Protein DEK	S 251	100% (1,000.00)	1.0000	3	10	0	0	0	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	2	3	0	0	0	0	0	1	0	0	0	1	1	2	0	0
IPI00020060	Sodium/hydrogen exchanger 1	S 703	100% (62.08)	1.0000	5	4	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00020513	Zyxin	S 341	100% (79.00)	1.0000	15	18	0	0	1	2	0	0	0	2	2	4	0	0	0	0	1	3	0	0	1	2	1	3	0	0	0	2	1	2	0	0	0	2	2	2	0	0
IPI00020513	Zyxin	S 404	100% (62.18)	1.0000	9	17	0	1	2	0	0	0	0	1	2	0	0	0	1	1	1	0	0	0	1	1	1	1	1	0	1	2	1	2	0	1	1	2	1	1	0	0
IPI00020898	Ribosomal protein S6 kinase alpha-3	S 715	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00020956	Hepatoma-derived growth factor	S 132	100% (1,000.00)	1.0000	33	40	1	2	1	6	2	0	1	2	0	7	1	0	0	1	0	7	2	0	1	2	0	10	2	0	0	1	2	10	0	0	1	1	1	9	0	0
IPI00020956	Hepatoma-derived growth factor	S 133	100% (1,000.00)	1.0000	30	34	1	2	1	6	2	0	1	2	0	5	1	0	0	1	0	6	2	0	1	2	0	8	2	0	0	1	2	8	0	0	1	1	1	7	0	0
IPI00020956	Hepatoma-derived growth factor	S 165	100% (1,000.00)	1.0000	30	35	2	2	1	4	1	0	2	1	1	5	1	0	1	0	1	6	2	0	3	0	4	6	2	0	3	0	2	5	0	0	1	0	2	7	0	0
IPI00020984	Calnexin precursor	S 554	100% (79.03)	1.0000	28	36	1	3	2	2	1	0	2	2	1	1	1	0	1	3	6	1	1	0	0	3	6	1	1	0	1	4	5	3	2	0	0	2	5	1	1	1
IPI00020984	Calnexin precursor	S 583	100% (1,000.00)	1.0000	12	10	1	1	1	0	0	0	1	1	1	1	1	0	1	1	1	1	0	0	1	0	1	1	1	0	1	1	1	0	0	0	1	0	1	1	0	0
IPI00021048	Isoform 1 of Myoferlin	S 1915	100% (81.67)	1.0000	4	5	1	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00021175	Cell division cycle 2-related protein kinase 7	S 681	100% (66.00)	1.0000	8	7	2	1	0	0	0	0	2	0	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	3	1	0	0	0	0
IPI00021175	Cell division cycle 2-related protein kinase 7	S 685	100% (76.82)	1.0000	5	4	1	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0
IPI00021290	ATP-citrate synthase	S 481	100% (41.57)	1.0000	13	10	0	3	0	0	0	0	1	4	0	0	0	0	1	4	0	0	0	0	2	2	0	0	0	0	2	1	0	0	0	0	1	2	0	0	0	0
IPI00021363	Jumonji/ARID domain-containing protein 1A	S 1111	100% (89.37)	1.0000	3	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00021363	Jumonji/ARID domain-containing protein 1A	S 1493	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00021417	U4/U6.U5 tri-snRNP-associated protein 1	S 448	100% (96.71)	1.0000	12	13	0	3	1	0	0	0	0	3	1	0	0	0	1	2	1	0	0	0	0	3	1	0	0	0	1	2	1	0	0	0	1	3	1	0	0	0
IPI00021417	U4/U6.U5 tri-snRNP-associated protein 1	S 474	100% (1,000.00)	1.0000	3	3	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00021417	U4/U6.U5 tri-snRNP-associated protein 1	S 486	100% (1,000.00)	1.0000	3	3	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00021537	Isoform 1 of Opioid growth factor receptor	S 315	100% (90.19)	1.0000	17	24	1	2	1	2	0	0	1	2	2	2	0	0	1	2	0	1	0	0	1	3	2	2	0	0	1	2	2	2	1	0	1	2	2	2	0	1
IPI00021537	Isoform 1 of Opioid growth factor receptor	S 349	100% (1,000.00)	1.0000	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00021537	Isoform 1 of Opioid growth factor receptor	S 378	100% (100.69)	1.0000	7	5	0	1	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00021695	Isoform D of Plasma membrane calcium-transporting ATPase 1	S 1193	100% (74.63)	1.0000	11	10	2	1	0	0	0	0	2	1	0	0	0	0	3	2	0	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0	3	0	0	0	0	0
IPI00021701	KIAA0433 protein (Fragment)	S 50	100% (1,000.00)	1.0000	4	1	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00021728	Eukaryotic translation initiation factor 2 subunit 2	S 67	100% (1,000.00)	1.0000	3	5	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	1	1	0	0	0
IPI00021831	cAMP-dependent protein kinase type I-alpha regulatory subunit	S 83	100% (1,000.00)	1.0000	11	21	0	0	0	3	0	0	0	0	0	4	0	0	0	0	1	3	0	0	0	0	4	4	0	0	0	0	3	4	0	0	0	0	2	4	0	0
IPI00021831	cAMP-dependent protein kinase type I-alpha regulatory subunit	S 112	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00021888	Zinc transporter SLC39A7	S 275	100% (51.34)	1.0000	8	6	1	1	0	2	1	0	1	0	0	1	0	0	0	0	0	1	0	0	1	1	1	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0
IPI00021888	Zinc transporter SLC39A7	S 276	100% (52.59)	1.0000	8	6	1	1	0	2	1	0	1	0	0	1	0	0	0	0	0	1	0	0	1	1	1	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0
IPI00022058	Isoform 1 of Development and differentiation-enhancing factor 2	S 701	100% (1,000.00)	1.0000	6	8	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0
IPI00022058	Isoform 1 of Development and differentiation-enhancing factor 2	S 899	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022095	paternally expressed 10 isoform RF1/2	S 252	100% (1,000.00)	1.0000	2	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022145	Nuclear ubiquitous casein and cyclin-dependent kinases substrate	S 58	100% (48.83)	1.0000	44	33	3	3	2	5	3	0	2	3	3	4	3	0	3	1	0	5	4	0	2	1	3	5	2	0	1	1	3	4	1	0	1	1	3	4	1	0
IPI00022145	Nuclear ubiquitous casein and cyclin-dependent kinases substrate	S 61	100% (65.71)	1.0000	32	28	2	2	2	3	2	0	1	2	2	5	2	0	2	2	0	3	2	0	1	1	2	5	1	0	1	1	2	3	2	0	2	1	2	3	1	0
IPI00022145	Nuclear ubiquitous casein and cyclin-dependent kinases substrate	S 73	100% (1,000.00)	1.0000	2	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00022145	Nuclear ubiquitous casein and cyclin-dependent kinases substrate	S 75	100% (1,000.00)	1.0000	7	9	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	1	3	1	0	0	0	0	2	0	0	0	0	0	2	0	0
IPI00022145	Nuclear ubiquitous casein and cyclin-dependent kinases substrate	S 79	100% (1,000.00)	1.0000	15	18	0	0	0	5	1	0	0	0	0	4	1	0	0	0	0	4	0	0	0	0	2	5	1	0	0	0	1	5	0	0	0	0	0	4	0	0
IPI00022145	Nuclear ubiquitous casein and cyclin-dependent kinases substrate	S 113	100% (1,000.00)	1.0000	3	5	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0
IPI00022145	Nuclear ubiquitous casein and cyclin-dependent kinases substrate	S 181	100% (46.31)	1.0000	25	20	0	0	1	7	2	0	0	0	2	5	2	0	0	2	0	4	0	0	0	0	0	6	0	0	0	0	0	4	1	0	0	0	0	7	2	0
IPI00022145	Nuclear ubiquitous casein and cyclin-dependent kinases substrate	S 204	100% (1,000.00)	1.0000	7	9	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	4	0	0	0	0	0	2	0	0
IPI00022145	Nuclear ubiquitous casein and cyclin-dependent kinases substrate	S 214	100% (1,000.00)	1.0000	43	45	2	1	1	10	2	0	2	0	1	10	2	0	1	0	0	9	2	0	2	1	2	9	2	0	1	0	2	11	2	0	0	0	3	9	1	0
IPI00022184	Isoform 3 of Pumilio homolog 2	S 136	100% (1,000.00)	1.0000	4	3	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00022215	Activity-dependent neuroprotector	S 98	100% (1,000.00)	1.0000	2	4	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00022215	Activity-dependent neuroprotector	S 953	100% (1,000.00)	1.0000	14	11	3	2	0	0	0	0	3	1	0	0	0	0	4	1	0	0	0	0	1	2	0	0	0	0	3	1	1	0	0	0	2	1	0	0	0	0
IPI00022215	Activity-dependent neuroprotector	S 955	100% (1,000.00)	1.0000	12	10	2	1	0	0	0	0	2	2	0	0	0	0	3	2	0	0	0	0	2	1	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0
IPI00022348	Isoform PML-1 of Probable transcription factor PML	S 527	100% (59.60)	1.0000	2	5	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0
IPI00022373	RNA-binding protein NOB1	S 184	100% (1,000.00)	1.0000	9	16	0	0	0	1	2	0	1	0	0	1	2	0	0	0	0	1	1	0	0	0	1	4	1	0	0	0	2	4	1	0	0	0	3	0	0	0
IPI00022373	RNA-binding protein NOB1	S 201	100% (122.17)	1.0000	15	17	1	1	1	1	1	0	1	1	0	1	1	0	1	1	1	2	1	0	1	1	1	1	1	0	1	1	1	3	1	0	1	1	1	1	1	0
IPI00022460	Zinc finger protein 592	S 1089	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022465	Isoform 1 of Citron Rho-interacting kinase	S 480	100% (63.58)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00022613	Isoform 1 of Probable nucleolar complex protein 14	S 146	100% (1,000.00)	1.0000	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00022613	Isoform 1 of Probable nucleolar complex protein 14	S 148	100% (1,000.00)	1.0000	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00022649	Isoform 1 of Solute carrier family 12 member 2	S 994	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022790	Microfibrillar-associated protein 1	S 116	100% (1,000.00)	1.0000	11	13	0	1	3	0	0	0	0	0	2	0	0	0	0	1	4	0	0	0	0	0	6	0	0	0	0	0	2	0	0	0	0	1	4	0	0	0
IPI00022790	Microfibrillar-associated protein 1	S 118	100% (1,000.00)	1.0000	5	5	0	1	1	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0
IPI00022790	Microfibrillar-associated protein 1	S 132	100% (1,000.00)	1.0000	7	10	0	0	2	0	0	0	1	1	1	0	0	0	0	2	0	0	0	0	0	1	3	0	0	0	0	0	1	0	0	0	0	2	3	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00022790	Microfibrillar-associated protein 1	S 133	100% (1,000.00)	1.0000	10	12	0	0	3	0	0	0	1	1	2	0	0	0	0	0	3	0	0	0	0	1	4	0	0	0	0	0	2	0	0	0	0	2	3	0	0	0
IPI00022904	50 kDa protein	S 387	100% (95.27)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022970	Nucleoprotein TPR	S 2008	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00023048	Elongation factor 1-delta	S 132	100% (93.66)	1.0000	13	15	0	0	0	3	1	0	0	0	1	3	1	0	0	0	0	2	1	1	1	1	1	1	2	0	0	0	0	3	1	0	1	0	0	2	1	1
IPI00023048	Elongation factor 1-delta	S 161	100% (1,000.00)	1.0000	71	82	2	1	1	12	7	1	2	1	1	12	6	0	2	2	2	11	6	2	2	2	3	17	3	2	1	2	2	18	2	2	2	2	1	17	2	2
IPI00023109	Chromodomain-helicase-DNA-binding protein 2	S 207	100% (1,000.00)	1.0000	13	11	4	1	0	0	0	0	4	0	0	0	0	0	4	0	0	0	0	0	5	0	0	0	0	0	2	0	0	0	0	4	0	0	0	0	0	0
IPI00023109	Chromodomain-helicase-DNA-binding protein 2	S 208	100% (1,000.00)	1.0000	13	11	4	1	0	0	0	0	4	0	0	0	0	0	4	0	0	0	0	0	5	0	0	0	0	0	2	0	0	0	0	4	0	0	0	0	0	0
IPI00023109	Chromodomain-helicase-DNA-binding protein 2	S 1369	100% (1,000.00)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00023109	Chromodomain-helicase-DNA-binding protein 2	S 1373	100% (1,000.00)	1.0000	4	3	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00023283	Isoform 2 of Titin	S 3188	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00023283	Isoform 2 of Titin	S 16569	100% (78.73)	1.0000	3	3	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0
IPI00023340	Histone acetyltransferase MYST3	S 954	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00023640	Programmed cell death protein 5	S 118	100% (71.75)	1.0000	15	12	0	0	0	0	5	0	0	0	0	0	5	1	0	0	0	0	3	1	0	0	0	0	4	2	0	0	0	4	0	0	0	0	0	0	2	0
IPI00023856	Peregrin	S 460	100% (1,000.00)	1.0000	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00023856	Peregrin	S 462	100% (1,000.00)	1.0000	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00023856	Peregrin	S 1076	100% (64.28)	1.0000	4	2	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00024062	Band 4.1-like protein 1	S 430	100% (62.03)	1.0000	7	3	0	1	0	0	0	0	1	2	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0
IPI00024062	Band 4.1-like protein 1	S 461	100% (1,000.00)	1.0000	7	0	0	1	0	0	0	0	2	1	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00024062	Band 4.1-like protein 1	S 466	100% (1,000.00)	1.0000	4	1	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00024062	Band 4.1-like protein 1	S 578	100% (1,000.00)	1.0000	10	5	1	2	0	0	0	0	2	1	0	0	0	0	2	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00024067	clathrin heavy chain 1	S 97	100% (39.66)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00024071	Isoform Long of Heat shock factor protein 1	S 303	100% (1,000.00)	1.0000	16	13	0	0	4	0	0	0	0	1	4	1	0	0	0	1	4	1	0	0	0	1	1	1	0	0	0	1	3	1	0	0	0	1	3	1	0	0
IPI00024071	Isoform Long of Heat shock factor protein 1	S 307	100% (1,000.00)	1.0000	10	10	0	0	2	0	0	0	0	1	2	1	0	0	0	1	2	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	2	1	0	0
IPI00024167	ABT1-associated protein	S 657	100% (68.90)	1.0000	9	8	0	2	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	1	3	0	0	0	0
IPI00024167	ABT1-associated protein	S 663	100% (58.06)	1.0000	6	5	0	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0
IPI00024254	Interferon-induced protein with tetratricopeptide repeats 3	S 203	100% (61.26)	1.0000	2	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00024291	Bcl2-antagonist of cell death	S 118	100% (92.15)	1.0000	4	8	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	3	0	0	0	0	1	2	0	0
IPI00024579	Postreplication repair protein RAD18	S 99	100% (1,000.00)	1.0000	4	6	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0
IPI00024650	Monocarboxylate transporter 1	S 483	100% (85.52)	1.0000	7	11	2	0	1	0	0	0	3	0	0	1	0	0	0	0	0	0	0	0	2	1	0	0	0	0	2	1	1	1	0	0	2	1	0	0	0	0
IPI00024650	Monocarboxylate transporter 1	S 498	100% (67.89)	1.0000	7	11	1	1	1	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	2	1	1	0	0	0	2	1	1	0	0	0	2	1	0	0	0	0
IPI00024871	core-binding factor, beta subunit isoform 1	S 173	100% (39.39)	1.0000	5	6	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	2	0	0
IPI00024933	60S ribosomal protein L12	S 38	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00024970	Inner centromere protein	S 275	100% (51.01)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00024971	Oxysterol-binding protein 1	S 193	100% (79.02)	1.0000	18	18	2	3	1	0	0	0	2	4	0	0	0	0	2	4	0	0	0	0	1	5	0	0	0	0	0	1	4	0	1	0	0	2	4	0	0	0
IPI00024971	Oxysterol-binding protein 1	S 351	100% (80.74)	1.0000	25	25	2	5	0	0	0	0	2	6	0	0	0	0	3	6	0	1	0	0	1	6	1	0	0	0	0	6	1	0	0	0	2	7	1	0	0	0
IPI00024976	Mitochondrial import receptor subunit TOM22 homolog	S 14	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00025100	2-oxoisovalerate dehydrogenase alpha subunit, mitochondrial precursor	S 347	100% (59.72)	1.0000	9	7	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	1	0	0
IPI00025156	Isoform 1 of STIP1 homology and U box-containing protein 1	S 19	100% (66.36)	1.0000	24	14	0	0	0	6	1	0	0	0	1	7	1	0	0	0	1	6	1	0	0	0	0	5	0	0	0	0	0	3	0	0	0	0	0	6	0	0
IPI00025156	Isoform 1 of STIP1 homology and U box-containing protein 1	S 23	100% (52.86)	1.0000	12	5	0	0	0	4	0	0	0	0	0	4	0	0	0	0	0	4	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00025202	Isoform 2 of Formin-like 1 protein	S 624	100% (1,000.00)	1.0000	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00025202	Isoform 2 of Formin-like 1 protein	S 1031	100% (42.06)	1.0000	3	1	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00025310	Zinc finger protein 217	S 441	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00025310	Zinc finger protein 217	S 445	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00025330	Isoform 2 of Cyclin-L1	S 146	100% (55.13)	1.0000	12	15	2	0	3	0	0	0	1	0	2	0	0	0	1	1	2	0	0	0	1	2	2	0	0	0	2	2	3	0	0	0	1	0	2	0	0	0
IPI00026089	Splicing factor 3B subunit 1	S 129	100% (59.30)	1.0000	2	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00026317	Zinc finger and BTB domain-containing protein 7A	S 549	100% (1,000.00)	1.0000	7	9	0	0	3	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	2	2	0	0	0	0	0	2	0	0	0
IPI00026320	Ubiquitin-protein ligase EDD1	S 2486	100% (76.06)	1.0000	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00026337	Isoform 1 of Ran-binding protein 3	S 333	100% (86.34)	1.0000	8	12	1	0	1	0	0	0	1	1	1	0	0	0	0	1	2	0	0	0	0	2	3	0	0	0	1	0	2	0	0	0	0	2	2	0	0	0
IPI00026673	Isoform 1 of Homeobox protein cut-like 1	S 817	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00026781	Fatty acid synthase	S 2123	100% (1,000.00)	1.0000	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00027078	Carboxypeptidase D precursor	S 203	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00027078	Carboxypeptidase D precursor	S 206	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00027078	Carboxypeptidase D precursor	S 211	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00027157	CENP-F kinetochore protein	S 1750	100% (71.75)	1.0000	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00027230	Endoplasmin precursor	S 306	100% (1,000.00)	1.0000	8	4	0	2	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0
IPI00027280	Isoform Beta-2 of DNA topoisomerase 2-beta	S 1550	100% (84.93)	1.0000	11	14	3	0	0	0	0	0	3	0	0	0	1	0	3	0	0	0	1	0	4	0	0	0	0	0	4	0	0	0	0	5	0	0	0	1	0	0
IPI00027280	Isoform Beta-2 of DNA topoisomerase 2-beta	S 1552	100% (70.68)	1.0000	19	12	4	0	0	0	0	0	7	0	0	1	0	0	6	0	0	0	1	0	3	0	0	0	0	0	3	0	0	0	0	5	0	0	0	1	0	0
IPI00027726	Isoform 1 of Krueppel-like factor 3	S 250	100% (43.31)	1.0000	6	6	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0
IPI00027831	Glutamate-rich WD repeat-containing protein 1	S 119	100% (71.38)	1.0000	7	17	0	0	0	2	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	2	3	0	0	0	0	3	3	0	0	0	0	2	4	0	0
IPI00027831	Glutamate-rich WD repeat-containing protein 1	S 122	100% (46.46)	1.0000	7	16	0	0	0	2	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	3	3	0	0	0	0	3	2	0	0	0	0	2	3	0	0
IPI00028005	Nuclear pore complex protein Nup107	S 907	100% (56.11)	1.0000	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00028005	Nuclear pore complex protein Nup107	S 908	100% (58.76)	1.0000	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00028071	Isoform Long of Dual specificity protein kinase CLK2	S 142	100% (64.00)	1.0000	3	6	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0
IPI00028481	Ras-related protein Rab-8A	S 181	100% (1,000.00)	1.0000	6	25	0	0	0	0	1	0	1	0	0	0	1	0	2	0	0	0	1	0	1	0	1	1	4	0	2	0	1	3	2	0	1	1	2	4	2	0
IPI00028481	Ras-related protein Rab-8A	S 185	100% (1,000.00)	1.0000	2	10	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	2	0	1	0	0	0	1	0	0	2	0	1	1	1	0
IPI00028954	80 kda MCM3-associated protein	S 286	100% (40.36)	1.0000	2	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00028954	80 kda MCM3-associated protein	S 538	100% (78.15)	1.0000	4	4	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00028955	Ribosome biogenesis protein BOP1	S 126	100% (43.86)	1.0000	8	7	1	1	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0
IPI00028955	Ribosome biogenesis protein BOP1	S 127	100% (42.05)	1.0000	6	7	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0
IPI00029011	Kinesin family member 1B	S 1487	100% (1,000.00)	1.0000	8	6	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00029012	Eukaryotic translation initiation factor 3 subunit 10	S 1336	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00029159	Isoform 1 of Double-strand break repair protein MRE11A	S 688	100% (123.96)	1.0000	3	3	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00029159	Isoform 1 of Double-strand break repair protein MRE11A	S 689	100% (129.29)	1.0000	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00029702	Isoform 1 of Protein tyrosine kinase 2 beta	S 375	100% (1,000.00)	1.0000	5	2	0	3	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 265	100% (100.23)	1.0000	12	10	2	1	1	0	0	0	2	1	1	0	0	0	2	1	1	0	0	0	2	1	0	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 294	100% (78.16)	1.0000	8	4	2	1	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 809	100% (38.16)	1.0000	7	9	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 1362	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 1618	100% (1,000.00)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00029822	SMARCA4 isoform 2	S 695	100% (1,000.00)	1.0000	9	8	2	0	0	0	0	0	3	0	0	0	0	0	4	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	4	0	0	0	0	0
IPI00029822	SMARCA4 isoform 2	S 699	100% (1,000.00)	1.0000	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00029822	SMARCA4 isoform 2	S 1484	100% (43.92)	1.0000	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00029822	SMARCA4 isoform 2	S 1659	100% (1,000.00)	1.0000	4	2	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00029822	SMARCA4 isoform 2	S 1663	100% (1,000.00)	1.0000	6	2	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00030131	thymopoietin isoform beta	S 66	100% (58.31)	1.0000	30	37	2	2	3	2	1	0	2	2	1	3	0	0	1	2	3	4	2	0	1	4	4	5	1	0	0	3	5	3	1	0	1	2	2	4	1	0
IPI00030131	thymopoietin isoform beta	S 67	100% (64.27)	1.0000	19	28	1	1	2	1	1	0	1	1	2	2	0	0	1	1	2	3	0	0	0	3	3	4	1	0	0	2	4	4	0	0	1	1	2	3	0	0
IPI00030131	thymopoietin isoform beta	S 306	100% (102.87)	1.0000	7	15	0	0	1	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	2	0	2	0	0	1	2	1	2	0	0	0	2	1	2	0
IPI00030274	hypothetical protein LOC84081 isoform 1	S 254	100% (49.79)	1.0000	2	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00030408	M-phase phosphoprotein 8	S 51	100% (1,000.00)	1.0000	14	8	1	2	1	1	0	0	1	3	0	1	0	0	1	2	1	0	0	0	1	0	1	0	0	0	1	1	1	0	0	0	1	2	0	0	0	0
IPI00030408	M-phase phosphoprotein 8	S 164	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00030531	sarcolemma associated protein	S 148	100% (69.09)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00030624	Isoform 6 of SAPS domain family member 3	S 588	100% (1,000.00)	1.0000	10	10	1	2	1	0	0	0	1	1	1	0	0	0	1	2	0	0	0	0	1	2	1	0	0	0	0	1	1	1	0	0	0	1	1	1	0	0
IPI00030876	Protein diaphanous homolog 1	S 22	100% (68.95)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
IPI00030968	Hypothetical protein C9orf142	S 148	100% (47.36)	1.0000	7	9	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	1	2	0	0	0	0	0	3	0	0	0	0	0	3	0
IPI00030968	Hypothetical protein C9orf142	S 152	100% (1,000.00)	1.0000	4	8	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	2	0	0	0	0	1	2	0
IPI00031517	DNA replication licensing factor MCM6	S 762	100% (61.37)	1.0000	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00031519	Isoform 1 of DNA	S 189	100% (77.71)	1.0000	5	12	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	4	0	0	0	0	0	4	1	0	0	0	0	3	0	0	0	0	0
IPI00031519	Isoform 1 of DNA	S 214	100% (45.31)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00031519	Isoform 1 of DNA	S 216	100% (47.92)	1.0000	4	4	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00031519	Isoform 1 of DNA	S 374	100% (1,000.00)	1.0000	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00031519	Isoform 1 of DNA	S 776	100% (1,000.00)	1.0000	16	17	5	1	0	0	0	0	4	1	0	0	0	0	4	1	0	0	0	0	3	1	0	0	0	0	5	1	0	0	0	0	6	1	0	0	0	0
IPI00031556	Splicing factor U2AF 65 kDa subunit	S 79	100% (1,000.00)	1.0000	13	10	0	1	2	1	0	0	0	1	1	1	0	0	0	1	4	1	0	0	0	1	2	1	0	0	0	1	1	1	1	0	0	0	1	1	1	0
IPI00031605	AHNAK nucleoprotein, isoform 2	S 94	100% (81.40)	1.0000	21	32	2	1	1	0	1	0	2	2	2	1	1	0	2	3	2	0	1	0	3	1	1	1	2	1	2	2	1	2	1	2	3	3	2	2	2	1
IPI00031651	MGC11257 protein	S 59	100% (1,000.00)	1.0000	4	8	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	1	2	0
IPI00031651	MGC11257 protein	S 175	100% (1,000.00)	1.0000	4	7	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	2	0	0	0	1	1	0
IPI00031812	Nuclease sensitive element-binding protein 1	S 173	100% (1,000.00)	1.0000	3	2	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00031812	Nuclease sensitive element-binding protein 1	S 175	100% (1,000.00)	1.0000	6	8	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	2	2	0	0	0	0	1	1	0	0
IPI00032236	Isoform 2 of Angiomotin-like protein 2	S 236	100% (1,000.00)	1.0000	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00032342	Thyroid receptor-interacting protein 12	S 310	100% (58.77)	1.0000	10	12	2	0	0	0	0	0	2	1	1	0	0	0	3	1	0	0	0	0	3	1	1	0	0	0	2	1	1	0	0	0	2	1	0	0	0	0
IPI00032342	Thyroid receptor-interacting protein 12	S 312	100% (69.83)	1.0000	7	5	2	0	0	0	0	0	2	0	0	0	0	0	2	0	1	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00032342	Thyroid receptor-interacting protein 12	S 991	100% (59.30)	1.0000	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00032342	Thyroid receptor-interacting protein 12	S 1575	100% (38.20)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00032342	Thyroid receptor-interacting protein 12	S 1577	100% (51.98)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00032342	Thyroid receptor-interacting protein 12	S 1580	100% (61.54)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00032355	Pumilio homolog 1	S 160	100% (1,000.00)	1.0000	6	1	2	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00032374	Isoform 2 of Protein KIAA0179	S 227	100% (58.87)	1.0000	9	9	0	2	2	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	1	1	2	0	0	0
IPI00032826	Hsc70-interacting protein	S 75	100% (1,000.00)	1.0000	7	5	0	1	0	2	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	2	0	0
IPI00032826	Hsc70-interacting protein	S 76	100% (1,000.00)	1.0000	7	5	0	1	0	2	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	0	1	0	0
IPI00032826	Hsc70-interacting protein	S 79	100% (1,000.00)	1.0000	10	9	0	1	0	3	0	0	0	0	0	2	0	0	0	0	0	4	0	0	0	0	0	1	0	0	0	0	1	3	0	0	0	0	1	3	0	0
IPI00033600	Isoform 1 of Protein phosphatase 1 regulatory subunit 7	S 12	100% (1,000.00)	1.0000	3	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00033600	Isoform 1 of Protein phosphatase 1 regulatory subunit 7	S 24	100% (44.68)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00033892	Isoform 1 of Zinc finger protein 336	S 613	100% (99.23)	1.0000	2	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00033907	Anaphase-promoting complex subunit 1	S 355	100% (86.83)	1.0000	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00036742	hypothetical protein LOC25962 isoform 1	S 173	100% (1,000.00)	1.0000	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00038698	Retinoblastoma-associated protein RAP140	S 531	100% (1,000.00)	1.0000	4	6	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00043565	Coiled-coil domain-containing protein 16	S 351	100% (69.72)	1.0000	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00043638	Isoform 2 of La-related protein 4	S 603	100% (46.62)	1.0000	3	5	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	1
IPI00045051	Transcriptional activator protein Pur-beta	S 303	100% (38.00)	1.0000	6	7	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0
IPI00045511	Mid-1-related chloride channel 1	S 438	100% (40.81)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00045914	Msx2-interacting protein	S 1194	100% (76.82)	1.0000	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00045914	Msx2-interacting protein	S 1268	100% (74.90)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00045914	Msx2-interacting protein	S 1278	100% (82.52)	1.0000	5	4	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00045914	Msx2-interacting protein	S 1380	100% (1,000.00)	1.0000	7	5	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00045914	Msx2-interacting protein	S 1382	100% (1,000.00)	1.0000	3	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
IPI00055954	WD-repeat protein 43	S 120	100% (1,000.00)	1.0000	3	2	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00055954	WD-repeat protein 43	S 474	100% (54.32)	1.0000	5	6	0	1	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0
IPI00061087	Protein C9orf42	S 76	100% (1,000.00)	1.0000	3	3	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00061758	PRR8 protein	S 205	100% (104.94)	1.0000	20	20	1	1	1	1	1	0	2	1	1	2	1	0	2	2	0	2	2	0	2	1	1	1	1	0	2	2	1	2	0	0	2	1	2	2	0	0
IPI00063219	Hypothetical protein LOC92345	S 315	100% (1,000.00)	1.0000	4	6	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0
IPI00063234	PRKAR2A protein	S 78	100% (111.29)	1.0000	18	21	0	0	2	3	0	0	1	0	2	4	0	0	1	0	1	4	0	0	0	0	3	4	0	0	0	0	2	4	0	0	0	0	3	4	1	0
IPI00063234	PRKAR2A protein	S 80	100% (103.93)	1.0000	17	19	0	0	2	3	0	0	1	0	2	3	0	0	1	0	1	4	0	0	0	0	3	3	0	0	0	0	2	4	0	0	0	0	3	3	1	0
IPI00064212	KIAA1802 protein (Fragment)	S 96	100% (1,000.00)	1.0000	2	3	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00064212	KIAA1802 protein (Fragment)	S 213	100% (107.67)	1.0000	15	20	2	3	1	0	0	0	1	3	1	0	0	0	1	2	0	1	0	0	1	3	1	1	0	0	2	3	1	1	0	0	2	3	1	1	0	0
IPI00064212	KIAA1802 protein (Fragment)	S 436	100% (1,000.00)	1.0000	5	10	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	1	3	0	0	0	0
IPI00064212	KIAA1802 protein (Fragment)	S 441	100% (1,000.00)	1.0000	2	4	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00064212	KIAA1802 protein (Fragment)	S 445	100% (1,000.00)	1.0000	2	6	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0
IPI00064212	KIAA1802 protein (Fragment)	S 461	100% (92.08)	1.0000	15	14	2	2	0	0	0	0	3	3	0	0	0	0	2	3	0	0	0	0	2	3	1	0	0	0	1	3	0	0	0	0	2	2	0	0	0	0
IPI00064212	KIAA1802 protein (Fragment)	S 485	100% (1,000.00)	1.0000	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00064931	Isoform 2 of E1A-binding protein p400	S 2440	100% (1,000.00)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00065931	A-kinase anchor protein 13 isoform 1	S 1761	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00065931	A-kinase anchor protein 13 isoform 1	S 1762	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00065931	A-kinase anchor protein 13 isoform 1	S 1763	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00065931	A-kinase anchor protein 13 isoform 1	S 2349	100% (1,000.00)	1.0000	8	7	2	2	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0
IPI00066641	Ubiquitin-like PHD and RING finger domain-containing protein 1	S 287	100% (1,000.00)	1.0000	2	4	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0
IPI00066641	Ubiquitin-like PHD and RING finger domain-containing protein 1	S 639	100% (1,000.00)	1.0000	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00069084	Isoform 1 of Transformation/transcription domain-associated protein	S 207	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00069267	Isoform B of GC-rich sequence DNA-binding factor homolog	S 262	100% (1,000.00)	1.0000	10	10	0	2	0	0	0	0	0	4	0	0	0	0	1	3	0	0	0	0	1	3	0	0	0	0	0	4	0	0	0	0	1	1	0	0	0	0
IPI00069309	Hypothetical protein DKFZp434K1815	S 212	100% (1,000.00)	1.0000	16	19	2	2	1	0	0	0	2	3	1	0	0	0	2	2	0	0	1	0	3	3	1	0	0	0	0	1	3	1	0	0	0	3	3	1	0	0
IPI00069693	23 kDa protein	S 139	100% (1,000.00)	1.0000	6	5	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	1	1	0	0	0	1	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0
IPI00069817	Isoform 1 of Bromodomain adjacent to zinc finger domain protein 1B	S 1147	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00069817	Isoform 1 of Bromodomain adjacent to zinc finger domain protein 1B	S 1468	100% (79.03)	1.0000	19	16	2	1	1	0	1	0	3	1	1	0	1	1	3	1	1	1	1	0	3	1	1	1	0	0	2	0	1	0	1	1	2	0	1	0	1	1
IPI00071185	Isoform SV1 of PITSLRE serine/threonine-protein kinase CDC2L1	S 47	100% (1,000.00)	1.0000	5	2	0	1	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00071188	Isoform SV10 of PITSLRE serine/threonine-protein kinase CDC2L1	S 13	100% (1,000.00)	1.0000	5	2	0	1	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00074148	dystonin isoform 1	S 3047	100% (1,000.00)	1.0000	3	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00074148	dystonin isoform 1	S 3049	100% (1,000.00)	1.0000	3	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00075080	Isoform B of Oxysterol-binding protein-related protein 1	S 378	100% (1,000.00)	1.0000	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00075080	Isoform B of Oxysterol-binding protein-related protein 1	S 499	100% (77.30)	1.0000	3	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00083708	HBxAg transactivated protein 2	S 2107	100% (1,000.00)	1.0000	3	3	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00084746	229 kDa protein	S 342	100% (1,000.00)	1.0000	15	16	3	2	0	0	0	0	3	3	0	0	0	0	2	2	0	0	0	0	1	1	0	0	0	0	4	3	1	0	0	0	3	2	1	0	0	0
IPI00084746	229 kDa protein	S 350	100% (1,000.00)	1.0000	15	16	3	2	0	0	0	0	3	3	0	0	0	0	2	2	0	0	0	0	1	1	0	0	0	0	4	3	1	0	0	0	3	2	1	0	0	0
IPI00087375	WW domain-containing adapter with a coiled-coil region isoform 3	S 53	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00095032	PREDICTED: hypothetical protein LOC146439	S 36	100% (1,000.00)	1.0000	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00099311	Isoform 1 of tRNA	S 495	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
IPI00099311	Isoform 1 of tRNA	S 497	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
IPI00099834	Ubinuclein	S 173	100% (1,000.00)	1.0000	1	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00099834	Ubinuclein	S 175	100% (1,000.00)	1.0000	1	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00100106	resistance to inhibitors of cholinesterase 8 homolog A	S 508	100% (1,000.00)	1.0000	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00100151	5'-3' exoribonuclease 2	S 499	100% (1,000.00)	1.0000	41	28	3	5	4	3	0	0	3	5	2	3	0	0	3	6	2	2	0	0	3	5	0	0	0	0	3	5	2	2	0	0	2	4	1	1	0	0
IPI00100151	5'-3' exoribonuclease 2	S 501	100% (1,000.00)	1.0000	36	25	2	4	3	3	0	0	3	6	1	3	0	0	2	5	2	2	0	0	3	4	0	0	0	0	2	4	2	2	0	0	1	5	1	1	0	0
IPI00100151	5'-3' exoribonuclease 2	S 678	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00100197	Isoform 1 of NSFL1 cofactor p47	S 114	100% (1,000.00)	1.0000	28	26	2	2	1	2	2	0	2	2	2	2	0	2	1	2	2	2	0	1	1	2	2	2	0	2	2	2	2	1	0	2	1	2	3	1	0	
IPI00100980	EH-domain-containing protein 2	S 438	100% (109.88)	1.0000	17	21	0	1	4	1	1	0	0	1	4	1	1	0	0	0	2	0	0	1	0	2	5	0	1	0	0	1	4	1	1	0	0	2	4	0	0	0
IPI00101186	Isoform 1 of Protein KIAA0690	S 1080	100% (99.23)	1.0000	12	12	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0
IPI00101942	Calmin	S 585	100% (61.12)	1.0000	3	3	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00102107	Isoform 1 of Histone-lysine N-methyltransferase, H3 lysine-36 and H4 lysine-20 specific	S 2471	100% (47.64)	1.0000	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00102752	Isoform 1 of Putative RNA-binding protein 15	S 134	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00102752	Isoform 1 of Putative RNA-binding protein 15	S 135	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00102752	Isoform 1 of Putative RNA-binding protein 15	S 140	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00102752	Isoform 1 of Putative RNA-binding protein 15	S 292	100% (38.51)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00102752	Isoform 1 of Putative RNA-binding protein 15	S 294	100% (45.74)	1.0000	8	8	0	1	1	1	0	0	1	0	1	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	1	0	1	1	0	0
IPI00102752	Isoform 1 of Putative RNA-binding protein 15	S 700	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00103004	HABP4 protein	S 108	100% (61.64)	1.0000	21	16	0	0	3	3	2	0	0	0	2	3	2	0	0	0	3	2	1	0	0	0	3	2	0	0	0	0	3	2	1	0	0	0	1	2	2	0
IPI00103090	Hypothetical protein LEO1	S 140	100% (1,000.00)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00103090	Hypothetical protein LEO1	S 151	100% (1,000.00)	1.0000	3	4	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
IPI00103090	Hypothetical protein LEO1	S 154	100% (1,000.00)	1.0000	2	6	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00103090	Hypothetical protein LEO1	S 162	100% (1,000.00)	1.0000	3	5	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00103090	Hypothetical protein LEO1	S 171	100% (1,000.00)	1.0000	8	9	0	3	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0
IPI00103090	Hypothetical protein LEO1	S 179	100% (1,000.00)	1.0000	6	6	0	2	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00103090	Hypothetical protein LEO1	S 197	100% (1,000.00)	1.0000	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00103090	Hypothetical protein LEO1	S 212	100% (1,000.00)	1.0000	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00103090	Hypothetical protein LEO1	S 220	100% (1,000.00)	1.0000	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00103090	Hypothetical protein LEO1	S 229	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00103090	Hypothetical protein LEO1	S 238	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00103090	Hypothetical protein LEO1	S 246	100% (1,000.00)	1.0000	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00103090	Hypothetical protein LEO1	S 254	100% (1,000.00)	1.0000	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00103090	Hypothetical protein LEO1	S 277	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00103090	Hypothetical protein LEO1	S 279	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00103090	Hypothetical protein LEO1	S 630	100% (70.09)	1.0000	15	23	1	4	0	0	1	0	1	3	0	0	1	0	0	4	0	0	0	0	1	6	1	0	1	0	0	6	2	0	0	0	1	4	1	0	0	0
IPI00103552	mucin 16	S 993	100% (1,000.00)	1.0000	11	5	0	0	0	0	0	3	0	0	0	0	0	3	1	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	2
IPI00103654	Hypothetical protein	S 311	100% (95.27)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00103756	Mid-1-related chloride channel 4	S 253	100% (40.81)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00103757	Mid-1-related chloride channel 3	S 317	100% (40.81)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00104050	Thyroid hormone receptor-associated protein 3	S 248	100% (71.28)	1.0000	36	31	4	3	3	1	0	0	4	4	4	1	0	0	4	4	3	1	0	0	3	3	3	0	0	0	3	3	2	1	0	0	4	5	2	1	0	1
IPI00104050	Thyroid hormone receptor-associated protein 3	S 575	100% (1,000.00)	1.0000	5	1	0	1	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00104050	Thyroid hormone receptor-associated protein 3	S 698	100% (1,000.00)	1.0000	13	28	1	2	2	0	0	0	1	3	0	0	0	0	0	4	0	0	0	0	3	3	2	0	0	0	3	4	2	1	0	0	2	5	3	0	0	0
IPI00104050	Thyroid hormone receptor-associated protein 3	S 928	100% (96.17)	1.0000	27	19	5	4	0	0	0	0	4	5	0	0	0	0	4	5	0	0	0	0	3	2	0	0	0	0	2	3	1	0	0	0	3	5	0	0	0	0
IPI00106495	Condensin complex subunit 3	S 1015	100% (1,000.00)	1.0000	5	5	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
IPI00106567	WD-repeat protein 33	S 424	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00106847	Isoform GTBP-alt of DNA mismatch repair protein MSH6	S 227	100% (101.73)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00106847	Isoform GTBP-alt of DNA mismatch repair protein MSH6	S 549	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00106847	Isoform GTBP-alt of DNA mismatch repair protein MSH6	S 550	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00106847	Isoform GTBP-alt of DNA mismatch repair protein MSH6	S 884	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00106928	protein tyrosine phosphatase, non-receptor type 2	S 304	100% (52.05)	1.0000	12	12	0	0	0	4	0	0	0	0	0	4	0	0	0	0	0	4	0	0	0	0	1	4	0	0	0	0	1	4	0	0	0	0	2	0	0	0
IPI00107104	Chromosome X open reading frame 26	S 197	100% (1,000.00)	1.0000	11	8	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0	2	2	0	0	0	0	4	0	0	0	0	0	2	0	0	0	0	2	0	0	0
IPI00107357	CLPTM1 protein	S 93	100% (1,000.00)	1.0000	7	7	0	0	0	1	0	1	0	0	1	1	0	0	1	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	2
IPI00141318	P63 protein	S 26	100% (1,000.00)	1.0000	2	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00141933	Mitotic checkpoint serine/threonine-protein kinase BUB1 beta	S 543	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00141933	Mitotic checkpoint serine/threonine-protein kinase BUB1 beta	S 670	100% (76.27)	1.0000	5	4	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0
IPI00142538	Isoform 1 of Probable helicase senataxin	S 947	100% (1,000.00)	1.0000	2	4	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
IPI00144293	Isoform 1 of YTH domain-containing protein 1	S 308	100% (1,000.00)	1.0000	6	4	1	1	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00145593	Nucleolar protein with MIF4G domain 1	S 280	100% (1,000.00)	1.0000	5	5	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
IPI00145593	Nucleolar protein with MIF4G domain 1	S 317	100% (55.67)	1.0000	2	3	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00148057	Isoform 2 of Bromodomain-containing protein 8	S 460	100% (1,000.00)	1.0000	2	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00150057	Isoform 2 of SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily C me	S 347	100% (65.90)	1.0000	10	7	1	1	0	0	0	0	3	1	0	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0
IPI00152001	Isoform Alpha of Tripartite motif protein 3	S 7	100% (1,000.00)	1.0000	5	5	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0
IPI00152001	Isoform Alpha of Tripartite motif protein 3	S 437	100% (62.07)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00152011	PTPL1-associated RhoGAP 1	S 190	100% (1,000.00)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00152011	PTPL1-associated RhoGAP 1	S 499	100% (79.81)	1.0000	1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00152093	Isoform 3 of Periphilin-1	S 78	100% (40.44)	1.0000	2	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00152377	Source of immunodominant MHC-associated peptides	S 498	100% (1,000.00)	1.0000	35	42	4	3	3	0	0	0	6	4	3	0	0	0	6	4	2	0	0	0	5	4	5	0	0	0	7	4	3	0	0	0	6	5	3	0	0	0
IPI00152377	Source of immunodominant MHC-associated peptides	S 499	100% (1,000.00)	1.0000	19	19	4	1	1	0	0	0	5	1	1	0	0	0	4	1	1	0	0	0	3	2	2	0	0	0	4	1	1	0	0	0	3	2	1	0	0	0
IPI00152510	ATP-dependent RNA helicase DDX54	S 644	100% (64.84)	1.0000	2	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00152510	ATP-dependent RNA helicase DDX54	S 782	100% (110.45)	1.0000	22	18	2	4	0	1	1	0	2	4	0	1	1	0	2	2	0	2	0	0	1	3	0	2	0	0	2	2	0	1	1	0	1	3	0	1	1	0
IPI00152542	Protein DmX-like 2	S 1984	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00152658	Serine/threonine-protein kinase Nek7	S 301	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00152658	Serine/threonine-protein kinase Nek7	S 302	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00152701	Hypothetical protein FLJ23660	S 105	100% (1,000.00)	1.0000	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00152701	Hypothetical protein FLJ23660	S 496	100% (1,000.00)	1.0000	3	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00152853	Isoform 1 of Protein KIAA1949	S 368	100% (1,000.00)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
IPI00154515	Smad nuclear-interacting protein 1	S 35	100% (1,000.00)	1.0000	12	12	0	0	2	2	0	0	0	0	1	2	0	0	1	1	1	2	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	1	2	2	0	0
IPI00154975	DnaJ homolog subfamily C member 9	S 109	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0
IPI00156793	DNA-repair protein complementing XP-C cells	S 93	100% (1,000.00)	1.0000	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00157144	GYS1 protein	S 588	100% (1,000.00)	1.0000	5	9	0	0	2	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	1	1	0	0	0	0	4	1	0	0	0	0	0	1	0	0	0
IPI00157144	GYS1 protein	S 589	100% (1,000.00)	1.0000	20	21	1	3	1	0	0	0	1	4	3	0	0	0	2	5	0	0	0	0	1	4	4	0	0	0	1	2	2	0	0	0	0	2	3	2	0	0
IPI00157144	GYS1 protein	S 593	100% (1,000.00)	1.0000	17	21	1	2	2	0	0	0	1	3	2	0	0	0	2	4	0	0	0	0	2	3	3	0	0	0	1	4	2	0	0	0	2	2	2	0	0	0
IPI00157643	Isoform 3 of Transcription factor IIIB 90 kDa subunit	S 141	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00157836	IQ motif and WD repeats 1 isoform a	S 336	100% (49.79)	1.0000	3	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00158020	Isoform 1 of Putative splicing factor, arginine/serine-rich 14	S 887	100% (1,000.00)	1.0000	1	4	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00159322	Isoform 1 of Transcription factor 20	S 574	100% (1,000.00)	1.0000	3	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00159652	PREDICTED: hypothetical protein LOC23045 isoform 1	S 398	100% (51.81)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00159652	PREDICTED: hypothetical protein LOC23045 isoform 1	S 899	100% (1,000.00)	1.0000	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00160131	Myosin-IXa	S 1829	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00161085	Isoform 1 of Nucleolar protein 8	S 896	100% (1,000.00)	1.0000	5	5	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00161085	Isoform 1 of Nucleolar protein 8	S 1088	100% (86.34)	1.0000	2	2	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00161085	Isoform 1 of Nucleolar protein 8	S 1089	100% (93.60)	1.0000	2	2	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00161085	Isoform 1 of Nucleolar protein 8	S 1090	100% (102.87)	1.0000	2	2	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00162549	SP110 nuclear body protein isoform c	S 256	100% (174.21)	1.0000	4	5	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	2	0	0	0
IPI00162549	SP110 nuclear body protein isoform c	S 380	100% (50.40)	1.0000	7	6	0	0	3	0	0	0	0	0	3	0	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	1	0	0	0
IPI00163505	Isoform 1 of RNA-binding region-containing protein 2	S 136	100% (107.01)	1.0000	27	24	2	2	2	2	1	2	2	2	1	2	1	2	1	2	1	0	0	2	1	2	1	1	0	2	2	2	2	0	1	1	2	3	1	0	1
IPI00163516	Isoform 1 of Formin-like 1 protein	S 624	100% (1,000.00)	1.0000	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00163516	Isoform 1 of Formin-like 1 protein	S 1031	100% (42.06)	1.0000	3	1	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00163849	Epidermal growth factor receptor substrate 15-like 1	S 593	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00164246	MSTP055	S 336	100% (49.79)	1.0000	3	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00164861	KINESIN-13A1	S 2	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00165138	GRIP and coiled-coil domain-containing protein 1	S 201	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00165171	DGCR14 protein	S 292	100% (1,000.00)	1.0000	3	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00165171	DGCR14 protein	S 391	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00165171	DGCR14 protein	S 395	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00165995	Isoform 1 of Splicing factor, arginine/serine-rich 130	S 211	100% (1,000.00)	1.0000	5	3	0	1	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00166009	Isoform 1 of JmjC domain-containing histone demethylation protein 1A	S 28	100% (49.37)	1.0000	9	10	0	1	1	1	0	0	1	1	0	1	0	0	0	2	0	1	0	0	2	2	0	0	0	0	0	2	1	0	0	0	1	2	0	0	0
IPI00166009	Isoform 1 of JmjC domain-containing histone demethylation protein 1A	S 692	100% (1,000.00)	1.0000	9	10	0	0	2	1	1	0	0	0	2	1	0	0	0	0	1	0	1	0	1	0	1	0	0	0	0	0	2	1	1	0	1	0	2	1	0	0
IPI00166009	Isoform 1 of JmjC domain-containing histone demethylation protein 1A	S 869	100% (81.74)	1.0000	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0
IPI00166487	Isoform 3 of Protein KIAA0310	S 891	100% (1,000.00)	1.0000	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00166512	stromal interaction molecule 1 precursor	S 575	100% (1,000.00)	1.0000	8	9	0	1	0	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	3	1	0	0	0
IPI00166612	cardiomyopathy associated 5	S 2686	100% (51.81)	1.0000	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00167053	Isoform 1b of Oxysterol-binding protein-related protein 3	S 379	100% (100.00)	1.0000	1	5	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0
IPI00167535	344 kDa protein	S 2478	100% (1,000.00)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00167941	Midasin	S 4538	100% (72.72)	1.0000	5	7	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0
IPI00167941	Midasin	S 4752	100% (1,000.00)	1.0000	4	2	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00167941	Midasin	S 4754	100% (1,000.00)	1.0000	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00168036	CDNA FLJ35151 fis, clone PLACE6010701	S 137	100% (95.44)	1.0000	24	27	1	0	0	3	4	1	0	0	0	2	4	1	0	0	0	3	4	1	0	0	0	3	4	1	0	0	0	4	3	1	0	0	0	4	5	2
IPI00168336	CDNA FLJ90478 fis, clone NT2RP3002790	S 134	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00168336	CDNA FLJ90478 fis, clone NT2RP3002790	S 138	100% (1,000.00)	1.0000	3	5	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	1	0	0	0
IPI00168336	CDNA FLJ90478 fis, clone NT2RP3002790	S 139	100% (1,000.00)	1.0000	3	5	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	1	0	0	0
IPI00169296	Isoform 2b of Oxysterol-binding protein-related protein 3	S 379	100% (100.00)	1.0000	1	5	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0
IPI00169307	Rho GTPase activating protein 21	S 1128	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00169383	Phosphoglycerate kinase 1	S 202	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00169434	Grb10 interacting GYF protein 2	S 236	100% (1,000.00)	1.0000	4	5	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0
IPI00170594	transcription factor ELYS	S 1241	100% (1,000.00)	1.0000	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00170594	transcription factor ELYS	S 2231	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00170594	transcription factor ELYS	S 2235	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00170596	Paired amphipathic helix protein Sin3a	S 832	100% (138.54)	1.0000	21	23	4	2	0	0	0	0	4	3	0	0	0	0	5	3	0	0	0	0	4	3	0	0	0	0	5	4	0	0	0	0	4	3	0	0	0	0
IPI00170596	Paired amphipathic helix protein Sin3a	S 940	100% (43.88)	1.0000	3	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00170643	Isoform 2 of Histone-lysine N-methyltransferase, H3 lysine-79 specific	S 374	100% (1,000.00)	1.0000	2	2	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00170643	Isoform 2 of Histone-lysine N-methyltransferase, H3 lysine-79 specific	S 688	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00170770	PHD finger protein 3	S 1133	100% (1,000.00)	1.0000	2	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00170778	Formin binding protein 4	S 18	100% (1,000.00)	1.0000	5	3	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00170778	Formin binding protein 4	S 497	100% (1,000.00)	1.0000	15	19	2	3	0	0	0	0	2	2	0	0	0	0	4	2	0	0	0	0	3	4	0	0	0	0	2	4	0	0	0	0	2	4	0	0	0	0
IPI00170778	Formin binding protein 4	S 506	100% (1,000.00)	1.0000	6	10	1	1	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	2	2	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0
IPI00170791	Isoform 2 of InaD-like protein	S 522	100% (1,000.00)	1.0000	2	5	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00170791	Isoform 2 of InaD-like protein	S 645	100% (1,000.00)	1.0000	5	6	1	1	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00170791	Isoform 2 of InaD-like protein	S 1212	100% (118.03)	1.0000	7	6	2	1	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0
IPI00171199	Isoform 2 of Proteasome subunit alpha type 3	S 242	100% (51.81)	1.0000	37	40	2	1	2	2	6	1	1	0	2	2	7	0	1	1	1	2	6	0	0	1	1	4	4	2	2	0	2	4	6	0	2	0	2	4	6	0
IPI00171422	CDNA PSEC0094 fis, clone NT2RP2001499, weakly similar to PROTEIN PTM1	S 549	100% (94.51)	1.0000	9	5	2	1	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0
IPI00171475	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 interacting protein	S 84	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00171749	modulator of estrogen induced transcription isoform a	S 289	100% (1,000.00)	1.0000	27	38	2	4	1	2	0	0	3	3	1	1	0	0	4	5	0	1	0	0	5	5	1	1	0	0	4	4	1	2	1	0	5	6	2	1	0	0
IPI00171749	modulator of estrogen induced transcription isoform a	S 553	100% (92.63)	1.0000	35	37	7	6	1	0	0	0	4	6	1	0	0	0	6	3	1	0	0	0	5	4	1	0	0	0	6	6	0	0	0	0	7	7	1	0	0	0
IPI00173461	Junctophilin-1	S 469	100% (69.02)	1.0000	2	3	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00174962	Molecule interacting with Rab13	S 578	100% (1,000.00)	1.0000	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00174976	Isoform 1 of MAGUK p55 subfamily member 5	S 25	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00176532	Isoform 1 of Junctophilin-2	S 469	100% (1,000.00)	1.0000	6	10	0	2	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0	4	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0
IPI00176532	Isoform 1 of Junctophilin-2	S 508	100% (90.29)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00176702	Protein KIAA1543	S 334	100% (1,000.00)	1.0000	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00176706	Splicing factor 45	S 155	100% (85.52)	1.0000	33	27	1	1	3	4	2	0	1	1	3	4	2	0	1	1	2	5	2	0	1	1	2	3	1	0	1	1	3	4	1	0	1	1	2	4	1	0
IPI00176903	Isoform 1 of Polymerase I and transcript release factor	S 365	100% (79.66)	1.0000	3	4	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0
IPI00176903	Isoform 1 of Polymerase I and transcript release factor	S 366	100% (85.35)	1.0000	3	4	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0
IPI00177381	hypothetical protein LOC57703	S 454	100% (72.73)	1.0000	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00177498	Hypothetical protein DKFZp451D112	S 1103	100% (74.69)	1.0000	9	14	0	2	0	0	0	0	2	2	0	0	0	0	2	1	0	0	0	0	2	2	0	0	0	0	2	2	1	0	0	0	2	2	1	0	0	0
IPI00177642	Coiled-coil domain-containing protein 9	S 202	100% (72.73)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00177743	251 kDa protein	S 1420	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR															
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00177743	251 kDa protein	S 2101	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00178072	Cytospin-A	S 220	100% (1,000.00)	1.0000	6	3	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00178150	Isoform 1 of Chromosome-associated kinesin KIF4A	S 394	100% (1,000.00)	1.0000	2	4	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0
IPI00178185	Isoform 1 of Cytoskeleton-like bicaudal D protein homolog 2	S 582	100% (1,000.00)	1.0000	1	4	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00178203	Some homology with holliday junction DNA helicase RUVB like	S 1080	100% (76.27)	1.0000	5	6	0	2	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00178375	Hypothetical protein HISPPD1	S 38	100% (1,000.00)	1.0000	4	1	0	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00178440	Elongation factor 1-beta	S 105	100% (72.73)	1.0000	96	123	1	1	1	3	24	0	1	2	1	4	18	0	0	1	1	3	31	4	0	0	2	17	29	1	0	0	0	15	22	1	1	0	1	18	16	0
IPI00179473	Isoform 1 of Sequestosome-1	S 207	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00179700	high mobility group AT-hook 1 isoform a	S 99	100% (1,000.00)	1.0000	9	5	1	1	0	0	1	0	1	0	0	0	1	0	1	0	0	0	3	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00179700	high mobility group AT-hook 1 isoform a	S 102	100% (1,000.00)	1.0000	26	16	2	2	1	1	3	0	2	1	0	1	4	0	3	0	0	0	6	0	1	1	0	2	2	0	1	0	0	1	3	0	0	0	0	1	4	0
IPI00179700	high mobility group AT-hook 1 isoform a	S 103	100% (1,000.00)	1.0000	25	18	2	2	1	1	4	0	2	1	0	1	3	0	3	0	0	0	5	0	1	1	0	2	3	0	1	0	0	1	2	0	0	0	0	1	6	0
IPI00179757	Kinesin-like protein KIF1C	S 494	100% (79.59)	1.0000	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00179953	Isoform 1 of Nuclear autoantigenic sperm protein	S 451	100% (40.62)	1.0000	6	4	1	2	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00179953	Isoform 1 of Nuclear autoantigenic sperm protein	S 480	100% (1,000.00)	1.0000	21	18	2	7	0	0	0	0	2	4	0	0	0	0	2	4	0	0	0	0	2	4	0	0	0	0	1	5	0	0	0	0	2	4	0	0	0	0
IPI00179953	Isoform 1 of Nuclear autoantigenic sperm protein	S 503	100% (1,000.00)	1.0000	5	8	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	2	2	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
IPI00180154	Isoform 1 of Ataxin-2	S 785	100% (52.93)	1.0000	7	8	1	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	2	2	0	0	0	0
IPI00180625	KIAA0284 protein	S 549	100% (1,000.00)	1.0000	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00180625	KIAA0284 protein	S 585	100% (61.05)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00180625	KIAA0284 protein	S 702	100% (105.50)	1.0000	5	4	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00180625	KIAA0284 protein	S 759	100% (49.35)	1.0000	1	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00180625	KIAA0284 protein	S 783	100% (1,000.00)	1.0000	5	4	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00180625	KIAA0284 protein	S 1065	100% (40.00)	1.0000	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00180707	Isoform 1 of FRAS1-related extracellular matrix protein 2 precursor	S 2412	100% (1,000.00)	1.0000	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00181283	Similar to phospholipase C, beta 3 (Fragment)	S 494	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00181617	RNA-binding protein 34	S 14	100% (1,000.00)	1.0000	8	12	0	0	3	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	3	2	0	0	0	0	2	2	0	0
IPI00182728	Vacuolar sorting protein 4b	S 102	100% (55.13)	1.0000	24	30	0	0	1	5	0	0	0	0	2	6	0	0	0	0	2	8	0	0	0	0	6	5	0	0	0	0	5	4	0	0	0	0	6	4	0	0
IPI00182757	Isoform 1 of Protein KIAA1967	S 924	100% (75.31)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00183274	sorting nexin 1 isoform c	S 188	100% (99.60)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00183530	CDNA FLJ46302 fis, clone TESTI4036048, highly similar to Sorting nexin 1	S 188	100% (99.60)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00183794	zinc finger protein 265 isoform 2	S 120	100% (52.86)	1.0000	28	29	1	2	5	3	0	0	1	1	3	3	0	0	1	1	3	3	1	0	1	1	3	4	1	0	0	1	4	4	1	0	0	0	4	4	1	0
IPI00183794	zinc finger protein 265 isoform 2	S 153	100% (140.53)	1.0000	27	22	2	1	2	3	0	2	1	0	2	3	0	0	2	1	2	3	1	2	2	0	1	1	0	2	2	0	1	3	0	2	2	2	1	2	0	1
IPI00184997	Full-length cDNA clone CS0DH002YN05 of T cells (Fragment)	S 752	100% (66.34)	1.0000	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00185027	Isoform 1 of Arginine-glutamic acid dipeptide repeats protein	S 656	100% (48.87)	1.0000	12	13	4	2	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	3	2	0	0	0	0	3	1	0	0	0	0	3	1	0	0	0	0
IPI00185919	Isoform 1 of La-related protein 1	S 75	100% (1,000.00)	1.0000	3	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00185919	Isoform 1 of La-related protein 1	S 90	100% (1,000.00)	1.0000	12	15	2	2	0	0	0	0	1	1	0	0	0	0	3	3	0	0	0	0	2	3	0	0	0	0	3	2	1	0	0	0	3	1	0	0	0	0
IPI00185919	Isoform 1 of La-related protein 1	S 165	100% (42.44)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00186139	hypothetical protein LOC65095 isoform 1	S 177	100% (96.96)	1.0000	10	9	1	1	1	0	0	0	1	2	0	0	0	0	1	2	1	0	0	0	1	2	0	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0
IPI00186536	Isoform B of Mitogen-activated protein kinase kinase kinase 4	S 431	100% (58.98)	1.0000	1	4	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00186711	plectin 1 isoform 6	S 1435	100% (1,000.00)	1.0000	3	5	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00186711	plectin 1 isoform 6	S 1732	100% (1,000.00)	1.0000	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00187011	Zinc finger CCCH-type domain-containing protein C19orf7	S 375	100% (1,000.00)	1.0000	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00215743	Isoform 3 of Ribosome-binding protein 1	S 615	100% (65.44)	1.0000	21	20	3	2	1	0	0	0	4	3	1	0	0	0	4	3	0	0	0	0	5	2	0	0	0	0	5	2	0	0	0	0	3	3	0	0	0	0
IPI00215743	Isoform 3 of Ribosome-binding protein 1	S 1276	100% (54.41)	1.0000	8	6	1	1	0	0	0	0	2	1	0	0	0	0	1	2	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	1
IPI00215743	Isoform 3 of Ribosome-binding protein 1	S 1277	100% (49.68)	1.0000	11	13	3	2	0	0	0	0	1	2	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0	0	2	2	0	0	0	0	3	2	0	0	0	0
IPI00215801	Isoform 2 of RNA-binding region-containing protein 2	S 136	100% (107.01)	1.0000	27	24	2	2	2	2	1	2	2	2	1	2	1	2	1	2	1	0	0	0	2	1	2	1	1	0	2	2	2	2	0	1	1	2	3	1	0	1
IPI00215928	Centrin-2	S 20	100% (74.28)	1.0000	2	5	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0
IPI00215999	Isoform SV9 of PITSLRE serine/threonine-protein kinase CDC2L1	S 47	100% (1,000.00)	1.0000	5	2	0	1	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00216044	Isoform 1 of RNA-binding protein Raly	S 119	100% (1,000.00)	1.0000	6	7	0	0	0	0	1	0	0	1	0	0	1	0	0	0	1	1	1	0	1	0	1	0	0	0	0	1	0	1	1	0	1	0	0	0	1	0
IPI00216047	Isoform 1 of SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily C me	S 347	100% (65.90)	1.0000	10	7	1	1	0	0	0	0	3	1	0	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0
IPI00216049	Isoform 1 of Heterogeneous nuclear ribonucleoprotein K	S 284	100% (84.63)	1.0000	22	17	1	2	5	1	0	0	2	0	3	1	0	0	2	2	3	0	0	0	1	1	2	4	0	0	1	0	2	2	0	0	0	0	3	1	0	0
IPI00216078	Isoform Beta of Tripartite motif protein 3	S 7	100% (1,000.00)	1.0000	5	5	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00216078	Isoform Beta of Tripartite motif protein 3	S 426	100% (62.07)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216135	Isoform 3 of Tropomyosin 1 alpha chain	S 252	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00216219	Isoform Long of Tight junction protein ZO-1	S 912	100% (67.76)	1.0000	3	6	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00216230	Lamina-associated polypeptide 2 isoform alpha	S 65	100% (58.31)	1.0000	30	37	2	2	3	2	1	0	2	2	1	3	0	0	1	2	3	4	2	0	1	4	4	5	1	0	0	3	5	3	1	0	1	2	2	4	1	0
IPI00216230	Lamina-associated polypeptide 2 isoform alpha	S 66	100% (64.27)	1.0000	19	28	1	1	2	1	1	0	1	1	2	2	0	0	1	1	2	3	0	0	0	3	3	4	1	0	0	2	4	4	0	0	1	1	2	3	0	0
IPI00216252	Kinesin family member 1B	S 1487	100% (1,000.00)	1.0000	8	6	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00216435	Isoform 2 of Protein tyrosine kinase 2 beta	S 375	100% (1,000.00)	1.0000	5	2	0	3	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00216527	Isoform B of Plasma membrane calcium-transporting ATPase 1	S 1155	100% (74.63)	1.0000	11	10	2	1	0	0	0	0	2	1	0	0	0	0	3	2	0	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0	3	0	0	0	0	0
IPI00216528	Isoform C of Plasma membrane calcium-transporting ATPase 1	S 1184	100% (74.63)	1.0000	11	10	2	1	0	0	0	0	2	1	0	0	0	0	3	2	0	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0	3	0	0	0	0	0
IPI00216530	Isoform K of Plasma membrane calcium-transporting ATPase 1	S 1119	100% (74.63)	1.0000	11	10	2	1	0	0	0	0	2	1	0	0	0	0	3	2	0	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0	3	0	0	0	0	0
IPI00216540	Isoform 4 of Protein kinase C-binding protein 1	S 292	100% (86.75)	1.0000	9	9	1	2	0	0	0	0	0	2	0	0	0	0	1	2	0	1	0	0	2	1	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0
IPI00216546	Isoform 2 of Probable palmitoyltransferase ZDHHC5	S 327	100% (77.53)	1.0000	13	12	2	2	0	0	1	0	1	2	0	1	0	0	2	1	0	1	0	0	1	2	0	0	0	0	2	2	1	1	0	0	2	1	0	0	0	0
IPI00216592	Isoform C1 of Heterogeneous nuclear ribonucleoproteins C1/C2	S 220	100% (80.41)	1.0000	20	18	1	0	1	5	2	0	0	0	1	5	1	0	0	0	0	3	1	0	1	0	1	5	1	0	0	0	0	5	0	0	0	0	1	4	0	0
IPI00216592	Isoform C1 of Heterogeneous nuclear ribonucleoproteins C1/C2	S 240	100% (1,000.00)	1.0000	10	8	0	0	0	4	0	0	0	0	0	2	0	0	0	0	0	4	0	0	0	0	1	3	0	0	0	0	3	0	0	0	0	0	1	0	0	0
IPI00216592	Isoform C1 of Heterogeneous nuclear ribonucleoproteins C1/C2	S 247	100% (1,000.00)	1.0000	64	76	1	0	2	15	2	2	2	1	1	11	1	0	2	2	2	18	1	1	0	1	4	18	2	2	2	2	3	16	2	1	2	1	3	15	1	1

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00216592	Isoform C1 of Heterogeneous nuclear ribonucleoproteins C1/C2	S 286	100% (52.59)	1.0000	20	23	1	1	1	4	0	0	1	1	0	3	0	0	1	1	1	4	1	0	0	0	2	3	1	0	1	0	2	4	1	0	0	1	3	4	1	0
IPI00216622	Isoform 2 of Actin-like protein 6A	S 191	100% (1,000.00)	1.0000	2	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00216633	Isoform Short of Dematin	S 226	100% (1,000.00)	1.0000	3	2	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00216654	Isoform Beta of Nucleolar phosphoprotein p130	S 407	100% (1,000.00)	1.0000	3	4	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00216654	Isoform Beta of Nucleolar phosphoprotein p130	S 573	100% (1,000.00)	1.0000	2	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216654	Isoform Beta of Nucleolar phosphoprotein p130	S 653	100% (1,000.00)	1.0000	2	6	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0
IPI00216695	Isoform 2 of Bromodomain adjacent to zinc finger domain protein 1B	S 1143	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216695	Isoform 2 of Bromodomain adjacent to zinc finger domain protein 1B	S 1464	100% (79.03)	1.0000	19	16	2	1	1	0	1	0	3	1	1	0	1	1	3	1	1	1	1	0	3	1	1	1	0	0	2	0	1	0	1	1	2	0	1	0	1	1
IPI00216919	YAP1 protein	S 289	100% (101.40)	1.0000	2	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00216952	Isoform C of Lamin-A/C	S 458	100% (79.02)	1.0000	8	8	0	1	2	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0
IPI00216952	Isoform C of Lamin-A/C	S 463	100% (53.37)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00217223	Multifunctional protein ADE2	S 53	100% (81.69)	1.0000	9	12	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	1	3	0	0	0	0	1	4	0	0
IPI00217240	WD-repeat protein 75	S 779	100% (66.06)	1.0000	6	5	0	0	0	0	0	0	1	1	0	0	0	0	3	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00217240	WD-repeat protein 75	S 782	100% (73.26)	1.0000	6	5	0	0	0	0	0	0	1	1	0	0	0	0	3	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00217466	Histone H1.3	S 188	100% (1,000.00)	1.0000	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00217467	Histone H1.4	S 171	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00217467	Histone H1.4	S 186	100% (1,000.00)	1.0000	13	17	0	1	0	3	0	0	1	1	1	1	0	0	1	1	1	2	0	0	1	1	0	3	0	1	0	0	2	3	0	0	0	1	2	3	0	0
IPI00217468	Histone H1.5	S 172	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00217541	ATP-dependent RNA helicase DDX51	S 83	100% (1,000.00)	1.0000	16	12	0	1	1	1	0	0	0	2	1	2	0	0	1	2	5	0	0	0	0	1	3	1	0	0	0	1	2	0	0	0	0	2	2	0	0	0
IPI00217626	IMP dehydrogenase/GMP reductase family protein	S 278	100% (50.50)	1.0000	6	4	0	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
IPI00217626	IMP dehydrogenase/GMP reductase family protein	S 280	100% (57.29)	1.0000	9	10	1	3	0	0	0	0	0	2	0	0	0	0	2	1	0	0	0	0	2	3	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0
IPI00217626	IMP dehydrogenase/GMP reductase family protein	S 575	100% (1,000.00)	1.0000	13	11	1	4	0	0	0	0	2	3	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	1	3	0	0	0	0	1	3	0	0	0	0
IPI00217626	IMP dehydrogenase/GMP reductase family protein	S 591	100% (1,000.00)	1.0000	2	5	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00217661	Isoform 2 of Protein raver-1	S 617	100% (79.03)	1.0000	4	7	0	1	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	1	0	1	0	1	0	1	1	0	0	0	1	1	0	0	0
IPI00217709	Isoform Beta-1 of DNA topoisomerase 2-beta	S 1545	100% (84.93)	1.0000	11	14	3	0	0	0	0	0	3	0	0	0	1	0	3	0	0	0	1	0	4	0	0	0	0	0	4	0	0	0	0	0	5	0	0	0	1	0
IPI00217709	Isoform Beta-1 of DNA topoisomerase 2-beta	S 1547	100% (70.68)	1.0000	19	12	4	0	0	0	0	0	7	0	0	0	1	0	6	0	0	0	1	0	3	0	0	0	0	0	3	0	0	0	0	0	5	0	0	0	1	0
IPI00217842	PREDICTED: hypothetical protein LOC114825	S 145	100% (1,000.00)	1.0000	8	8	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	1	0	1	0	0	1	1	0	1	0	0	1	1	1	0	0	0
IPI00217851	PHACTR4 protein	S 464	100% (49.79)	1.0000	7	2	0	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00217930	Isoform J of SON protein	S 1697	100% (92.15)	1.0000	21	17	6	2	0	0	0	0	4	3	0	0	0	0	5	1	0	0	0	0	5	2	0	0	0	0	3	2	0	0	0	0	4	1	0	0	0	0
IPI00217930	Isoform J of SON protein	S 2129	100% (61.62)	1.0000	4	9	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0
IPI00217957	ELYS transcription factor-like protein TMBS62	S 1267	100% (1,000.00)	1.0000	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00217957	ELYS transcription factor-like protein TMBS62	S 2258	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00217957	ELYS transcription factor-like protein TMBS62	S 2262	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218019	Isoform 1 of Basigin precursor	S 362	100% (1,000.00)	1.0000	11	12	0	0	2	1	0	0	0	0	2	2	0	0	0	0	3	1	0	0	0	0	4	1	0	0	0	0	2	1	0	0	0	0	3	1	0	0
IPI00218136	137 kDa protein	S 338	100% (1,000.00)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00218292	Isoform Short of Ubiquitin fusion degradation protein 1 homolog	S 247	100% (48.87)	1.0000	8	11	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	2	0	1	0	0	0	3	0	1	0	0	0	3	0	1
IPI00218490	Isoform 2 of Kinesin-like protein KIF13A	S 2	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00218507	Isoform Short of Heat shock factor protein 1	S 303	100% (1,000.00)	1.0000	16	13	0	0	4	0	0	0	0	1	4	1	0	0	0	1	4	1	0	0	0	1	1	1	0	0	0	1	3	1	0	0	0	1	3	1	0	0
IPI00218507	Isoform Short of Heat shock factor protein 1	S 307	100% (1,000.00)	1.0000	10	10	0	0	2	0	0	0	0	1	2	1	0	0	0	1	2	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	2	1	0	0
IPI00218529	Isoform AML-1I of Runt-related transcription factor 1	S 227	100% (60.33)	1.0000	10	3	0	0	1	2	0	0	0	0	2	2	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00218566	Isoform 1A of Mitogen-activated protein kinase kinase kinase 7	S 389	100% (49.76)	1.0000	3	5	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0
IPI00218617	SON protein	S 1659	100% (92.15)	1.0000	21	17	6	2	0	0	0	0	4	3	0	0	0	0	5	1	0	0	0	0	5	2	0	0	0	0	3	2	0	0	0	0	4	1	0	0	0	0
IPI00218617	SON protein	S 2091	100% (61.62)	1.0000	4	9	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0
IPI00218619	Isoform C of SON protein	S 1697	100% (92.15)	1.0000	21	17	6	2	0	0	0	0	4	3	0	0	0	0	5	1	0	0	0	0	5	2	0	0	0	0	3	2	0	0	0	0	4	1	0	0	0	0
IPI00218619	Isoform C of SON protein	S 2129	100% (61.62)	1.0000	4	9	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0
IPI00218620	Isoform D of SON protein	S 1697	100% (92.15)	1.0000	21	17	6	2	0	0	0	0	4	3	0	0	0	0	5	1	0	0	0	0	5	2	0	0	0	0	3	2	0	0	0	0	4	1	0	0	0	0
IPI00218620	Isoform D of SON protein	S 2129	100% (61.62)	1.0000	4	9	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0
IPI00218622	Isoform G of SON protein	S 1657	100% (92.15)	1.0000	21	17	6	2	0	0	0	0	4	3	0	0	0	0	5	1	0	0	0	0	5	2	0	0	0	0	3	2	0	0	0	0	4	1	0	0	0	0
IPI00218622	Isoform G of SON protein	S 2089	100% (61.62)	1.0000	4	9	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0
IPI00218624	Isoform I of SON protein	S 1737	100% (92.15)	1.0000	21	17	6	2	0	0	0	0	4	3	0	0	0	0	5	1	0	0	0	0	5	2	0	0	0	0	3	2	0	0	0	0	4	1	0	0	0	0
IPI00218624	Isoform I of SON protein	S 2169	100% (61.62)	1.0000	4	9	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0
IPI00218648	Isoform III of AT-rich interactive domain-containing protein 4A	S 1113	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218696	Isoform 4 of Caldesmon	S 202	100% (1,000.00)	1.0000	25	23	2	2	2	2	0	0	2	3	2	2	0	0	2	2	2	2	0	0	2	2	3	2	0	0	2	2	3	1	0	0	1	3	2	0	0	0
IPI00218729	Isoform 2 of Disks large homolog 1	S 619	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218753	Isoform 3 of DNA topoisomerase 2-alpha	S 1142	100% (1,000.00)	1.0000	15	20	3	2	0	0	0	0	4	1	0	0	0	0	4	1	0	0	0	0	6	1	1	0	0	0	4	0	1	0	0	0	6	1	0	0	0	0
IPI00218753	Isoform 3 of DNA topoisomerase 2-alpha	S 1249	100% (103.92)	1.0000	6	13	2	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	4	0	0	0	0	0	3	1	0	0	0	0	4	1	0	0	0	0
IPI00218753	Isoform 3 of DNA topoisomerase 2-alpha	S 1283	100% (38.72)	1.0000	17	31	4	0	0	0	0	0	5	1	0	0	0	0	6	1	0	0	0	0	8	2	1	0	0	0	9	1	0	0	0	0	9	1	0	0	0	0
IPI00218753	Isoform 3 of DNA topoisomerase 2-alpha	S 1387	100% (71.07)	1.0000	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00218753	Isoform 3 of DNA topoisomerase 2-alpha	S 1390	100% (78.62)	1.0000	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00218753	Isoform 3 of DNA topoisomerase 2-alpha	S 1410	100% (1,000.00)	1.0000	5	6	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00218753	Isoform 3 of DNA topoisomerase 2-alpha	S 1413	100% (1,000.00)	1.0000	12	15	4	1	0	0	0	0	4	0	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0	0	5	1	0	0	0	0	4	1	0	0	0	0
IPI00218753	Isoform 3 of DNA topoisomerase 2-alpha	S 1540	100% (65.16)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00218754	Isoform 4 of DNA topoisomerase 2-alpha	S 1187	100% (1,000.00)	1.0000	15	20	3	2	0	0	0	0	4	1	0	0	0	0	4	1	0	0	0	0	6	1	1	0	0	0	4	0	1	0	0	0	6	1	0	0	0	0
IPI00218754	Isoform 4 of DNA topoisomerase 2-alpha	S 1294	100% (103.92)	1.0000	6	13	2	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	4	0	0	0	0	0	3	1	0	0	0	0	4	1	0	0	0	0
IPI00218754	Isoform 4 of DNA topoisomerase 2-alpha	S 1328	100% (38.72)	1.0000	17	31	4	0	0	0	0	0	5	1	0	0	0	0	6	1	0	0	0	0	8	2	1	0	0	0	9	1	0	0	0	0	9	1	0	0	0	0
IPI00218754	Isoform 4 of DNA topoisomerase 2-alpha	S 1432	100% (71.07)	1.0000	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00218754	Isoform 4 of DNA topoisomerase 2-alpha	S 1435	100% (78.62)	1.0000	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00218754	Isoform 4 of DNA topoisomerase 2-alpha	S 1455	100% (1,000.00)	1.0000	5	6	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00218754	Isoform 4 of DNA topoisomerase 2-alpha	S 1458	100% (1,000.00)	1.0000	12	15	4	1	0	0	0	0	4	0	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0	0	5	1	0	0	0	0	4	1	0	0	0	0
IPI00218754	Isoform 4 of DNA topoisomerase 2-alpha	S 1585	100% (65.16)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00218788	Isoform PTPA of Tyrosine-protein phosphatase non-receptor type 2	S 304	100% (52.05)	1.0000	12	12	0	0	0	4	0	0	0	0	0	4	0	0	0	0	0	4	0	0	0	0	1	4	0	0	0	0	1	4	0	0	0	0	2	0	0
IPI00218823	Isoform 1 of Myeloid/lymphoid or mixed-lineage leukemia protein 4	S 844	100% (58.59)	1.0000	3	3	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00218853	Isoform 2 of Double-strand break repair protein MRE11A	S 660	100% (123.96)	1.0000	3	3	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00218853	Isoform 2 of Double-strand break repair protein MRE11A	S 661	100% (129.29)	1.0000	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218936	Isoform AML-1A of Runt-related transcription factor 1	S 212	100% (60.33)	1.0000	10	3	0	0	1	2	0	0	0	0	2	2	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00218938	Isoform AML-1C of Runt-related transcription factor 1	S 212	100% (60.33)	1.0000	10	3	0	0	1	2	0	0	0	0	2	2	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00218942	Isoform AML-1FC of Runt-related transcription factor 1	S 179	100% (60.33)	1.0000	10	3	0	0	1	2	0	0	0	0	2	2	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00218943	Isoform AML-1G of Runt-related transcription factor 1	S 239	100% (60.33)	1.0000	10	3	0	0	1	2	0	0	0	0	2	2	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00218944	Isoform AML-1H of Runt-related transcription factor 1	S 215	100% (60.33)	1.0000	10	3	0	0	1	2	0	0	0	0	2	2	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00219301	Myristoylated alanine-rich C-kinase substrate	S 45	100% (56.47)	1.0000	3	2	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00219301	Myristoylated alanine-rich C-kinase substrate	S 100	100% (1,000.00)	1.0000	8	16	0	0	1	1	0	0	0	0	1	1	0	0	1	1	1	1	0	0	1	1	1	1	0	0	0	1	1	1	1	1	1	2	1	1	1
IPI00219314	Isoform 2 of Protein KIAA0310	S 891	100% (1,000.00)	1.0000	2	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00219352	cystathionine-beta-synthase	S 32	100% (51.00)	1.0000	2	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00219649	Isoform 2 of Cystathionine beta-synthase	S 31	100% (51.00)	1.0000	2	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00219688	Isoform 1 of Plakophilin-2	S 151	100% (1,000.00)	1.0000	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219688	Isoform 1 of Plakophilin-2	S 154	100% (1,000.00)	1.0000	2	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219688	Isoform 1 of Plakophilin-2	S 155	100% (1,000.00)	1.0000	2	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219695	Isoform PTPB of Tyrosine-protein phosphatase non-receptor type 2	S 304	100% (52.05)	1.0000	12	12	0	0	0	4	0	0	0	0	0	4	0	0	0	0	0	4	0	0	0	0	1	4	0	0	0	0	1	4	0	0	0	0	2	0	0
IPI00219726	Isoform 2AC of Catenin delta-1	S 866	100% (1,000.00)	1.0000	16	21	1	4	1	0	0	0	1	4	0	0	0	0	2	2	1	0	0	0	1	5	2	0	0	0	0	4	2	0	0	0	1	5	1	0	0	0
IPI00219728	Isoform 2A of Catenin delta-1	S 860	100% (1,000.00)	1.0000	16	21	1	4	1	0	0	0	1	4	0	0	0	0	2	2	1	0	0	0	1	5	2	0	0	0	0	4	2	0	0	0	1	5	1	0	0	0
IPI00219774	cAMP-dependent protein kinase type II-alpha regulatory subunit	S 77	100% (111.29)	1.0000	18	21	0	0	2	3	0	0	1	0	2	4	0	0	1	0	1	4	0	0	0	0	3	4	0	0	0	0	2	4	0	0	0	0	3	4	1	0
IPI00219774	cAMP-dependent protein kinase type II-alpha regulatory subunit	S 79	100% (103.93)	1.0000	17	19	0	0	2	3	0	0	1	0	2	3	0	0	1	0	1	4	0	0	0	0	3	3	0	0	0	0	2	4	0	0	0	0	3	3	1	0
IPI00219841	DNA ligase 1	S 66	100% (1,000.00)	1.0000	10	12	1	2	0	1	0	0	1	2	0	0	0	0	2	1	0	0	0	0	1	2	1	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0
IPI00219841	DNA ligase 1	S 76	100% (1,000.00)	1.0000	6	9	0	2	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0	2	1	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0
IPI00219841	DNA ligase 1	S 141	100% (82.94)	1.0000	12	18	1	4	0	0	0	0	1	2	0	0	0	0	1	3	0	0	0	0	2	5	0	0	0	0	2	3	0	0	0	0	3	3	0	0	0	0
IPI00220038	Isoform B of Arsenite-resistance protein 2	S 74	100% (1,000.00)	1.0000	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00220045	Isoform 1 of DNA-directed RNA polymerases III 80 kDa polypeptide	S 161	100% (1,000.00)	1.0000	4	2	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00220045	Isoform 1 of DNA-directed RNA polymerases III 80 kDa polypeptide	S 162	100% (1,000.00)	1.0000	4	2	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00220381	Isoform 2 of Transcription factor 20	S 574	100% (1,000.00)	1.0000	3	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220426	Isoform 2 of Forkhead box protein K2	S 393	100% (1,000.00)	1.0000	9	12	0	1	0	1	0	0	1	1	1	1	0	0	1	1	0	1	0	0	1	1	1	1	0	0	1	1	1	1	0	0	1	1	1	1	0	0
IPI00220444	Isoform 2 of Adenylate cyclase type 6	S 576	100% (1,000.00)	1.0000	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220453	Isoform PML-X of Probable transcription factor PML	S 527	100% (59.60)	1.0000	2	5	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0
IPI00220490	SH3 and multiple ankyrin repeat domains 2 isoform 1	S 785	100% (45.03)	1.0000	2	4	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00220521	Isoform 3 of Golgin subfamily A member 4	S 71	100% (47.36)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00220522	Isoform 4 of Golgin subfamily A member 4	S 71	100% (47.36)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00220527	Isoform 1A of Sorting nexin-1	S 126	100% (99.60)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00220594	Isoform 4 of Intersectin-1	S 1235	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220716	Isoform 2 of Putative RNA-binding protein 15	S 134	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00220716	Isoform 2 of Putative RNA-binding protein 15	S 135	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00220716	Isoform 2 of Putative RNA-binding protein 15	S 140	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00220716	Isoform 2 of Putative RNA-binding protein 15	S 292	100% (38.51)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220716	Isoform 2 of Putative RNA-binding protein 15	S 294	100% (45.74)	1.0000	8	8	0	1	1	1	0	0	1	0	1	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	1	0	1	1	0	0
IPI00220716	Isoform 2 of Putative RNA-binding protein 15	S 700	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220717	Isoform 3 of Putative RNA-binding protein 15	S 134	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00220717	Isoform 3 of Putative RNA-binding protein 15	S 135	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00220717	Isoform 3 of Putative RNA-binding protein 15	S 140	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00220717	Isoform 3 of Putative RNA-binding protein 15	S 292	100% (38.51)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220717	Isoform 3 of Putative RNA-binding protein 15	S 294	100% (45.74)	1.0000	8	8	0	1	1	1	0	0	1	0	1	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	1	0	1	1	0	0
IPI00220717	Isoform 3 of Putative RNA-binding protein 15	S 700	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220739	Membrane-associated progesterone receptor component 1	S 56	100% (44.68)	1.0000	15	18	0	0	0	0	4	0	0	0	0	1	4	0	0	0	0	6	0	0	0	0	0	5	0	0	0	0	2	5	0	0	0	0	2	4	0	0
IPI00220740	Isoform 2 of Nucleophosmin	S 125	100% (76.11)	1.0000	9	5	0	1	0	1	0	0	0	1	1	1	0	0	0	0	2	1	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	1	0	0
IPI00220747	SP110 nuclear body protein isoform b	S 256	100% (174.21)	1.0000	4	5	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0
IPI00220747	SP110 nuclear body protein isoform b	S 380	100% (50.40)	1.0000	7	6	0	0	3	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0
IPI00220754	Isoform 1 of Gamma-adducin	S 42	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220844	Isoform 2 of Solute carrier family 12 member 2	S 978	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220993	Isoform CNPI of 2',3'-cyclic-nucleotide 3'-phosphodiesterase	S 150	100% (1,000.00)	1.0000	1	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00221106	splicing factor 3B subunit 2	S 289	100% (106.75)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00221106	splicing factor 3B subunit 2	S 431	100% (1,000.00)	1.0000	10	6	2	2	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0
IPI00221106	splicing factor 3B subunit 2	S 435	100% (1,000.00)	1.0000	10	6	2	2	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0
IPI00221106	splicing factor 3B subunit 2	S 436	100% (1,000.00)	1.0000	10	6	2	2	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0
IPI00221114	Isoform Beta of Transcription intermediary factor 1-gamma	S 753	100% (1,000.00)	1.0000	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00221114	Isoform Beta of Transcription intermediary factor 1-gamma	S 756	100% (1,000.00)	1.0000	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00221114	Isoform Beta of Transcription intermediary factor 1-gamma	S 757	100% (1,000.00)	1.0000	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00221325	Ran-binding protein 2	S 2900	100% (63.92)	1.0000	16	16	2	1	1	0	0	0	2	2	1	0	0	0	2	2	2	1	0	0	3	2	1	0	0	0	2	2	1	1	0	0	2	2	0	0	0	0
IPI00221394	H/ACA ribonucleoprotein complex subunit 4	S 20	100% (111.57)	1.0000	14	23	2	1	2	0	0	0	2	1	2	0	0	0	1	1	2	0	0	0	2	2	3	1	0	0	2	1	3	0	0	0	2	2	4	1	0	0
IPI00221394	H/ACA ribonucleoprotein complex subunit 4	S 484	100% (94.67)	1.0000	8	9	0	0	2	0	0	0	1	0	2	0	0	0	1	0	2	0	0	0	2	0	3	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0
IPI00221394	H/ACA ribonucleoprotein complex subunit 4	S 512	100% (1,000.00)	1.0000	8	6	1	0	1	1	0	0	1	0	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0
IPI00233796	Isoform C of Oxysterol-binding protein-related protein 1	S 378	100% (1,000.00)	1.0000	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00233796	Isoform C of Oxysterol-binding protein-related protein 1	S 499	100% (77.30)	1.0000	3	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00234154	similar to RIKEN cDNA 5730467H21	S 271	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00234252	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily C member 1	S 310	100% (1,000.00)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00234252	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily C member 1	S 328	100% (94.90)	1.0000	42	46	6	6	2	2	0	0	6	4	2	2	0	0	4	6	1	1	0	0	6	6	2	2	0	0	7	5	2	1	0	0	5	6	2	2	0	0
IPI00234252	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily C member 1	S 330	100% (102.98)	1.0000	37	45	5	5	2	2	0	0	5	4	2	2	0	0	3	5	1	1	0	0	7	6	2	2	0	0	6	4	2	1	0	0	6	5	2	2	0	0
IPI00234252	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily C member 1	S 573	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
IPI00237884	Isoform 1 of A-kinase anchor protein 12	S 626	100% (1,000.00)	1.0000	5	4	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00237884	Isoform 1 of A-kinase anchor protein 12	S 628	100% (1,000.00)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00239406	Isoform 2 of Nesprin-2	S 841	100% (48.45)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00239406	Isoform 2 of Nesprin-2	S 6361	100% (49.79)	1.0000	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00243221	Nardilysin	S 86	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00247674	PREDICTED: hypothetical protein XP_292820	S 435	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00250716	Isoform B of Bromodomain and WD-repeat domain-containing protein 1	S 696	100% (71.95)	1.0000	4	5	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00251559	Ubiquitin-protein ligase BRE1A	S 641	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00253281	Isoform 2 of Epidermal growth factor receptor kinase substrate 8-like protein 1	S 55	100% (1,000.00)	1.0000	12	12	0	1	0	0	1	0	1	2	0	0	1	0	1	2	2	0	1	0	0	0	2	0	0	0	1	1	2	1	0	0	1	2	2	0	0	0
IPI00255778	hypothetical protein LOC65095 isoform 2	S 59	100% (96.96)	1.0000	10	9	1	1	1	0	0	0	1	2	0	0	0	0	1	2	1	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0
IPI00256605	WW domain-containing adapter with a coiled-coil region isoform 1	S 53	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00256861	Isoform 2 of Microtubule-actin crosslinking factor 1, isoforms 1/2/3/5	S 2454	100% (1,000.00)	1.0000	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00260388	PHD finger protein 2	S 625	100% (1,000.00)	1.0000	4	10	1	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0
IPI00288941	Nuclear receptor coactivator 5	S 29	100% (1,000.00)	1.0000	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00288941	Nuclear receptor coactivator 5	S 34	100% (1,000.00)	1.0000	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00289034	Isoform 1 of Histone-lysine N-methyltransferase, H3 lysine-79 specific	S 374	100% (1,000.00)	1.0000	2	2	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00289034	Isoform 1 of Histone-lysine N-methyltransferase, H3 lysine-79 specific	S 688	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00289334	Isoform 1 of Filamin-B	S 1316	100% (80.42)	1.0000	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00289334	Isoform 1 of Filamin-B	S 1505	100% (82.32)	1.0000	4	6	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00289344	Isoform 1 of Nuclear receptor corepressor 1	S 224	100% (1,000.00)	1.0000	6	8	1	1	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0
IPI00289344	Isoform 1 of Nuclear receptor corepressor 1	S 999	100% (70.99)	1.0000	5	3	1	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00289601	Histone deacetylase 2	S 394	100% (1,000.00)	1.0000	44	55	3	2	7	2	1	0	2	3	7	2	0	0	2	3	7	2	0	1	3	4	8	3	1	0	1	4	7	1	1	2	2	4	8	3	0	3
IPI00289608	Isoform 2 of AP-3 complex subunit delta-1	S 830	100% (41.08)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00289819	Cation-independent mannose-6-phosphate receptor precursor	S 2409	100% (99.63)	1.0000	25	14	5	1	0	0	1	1	5	1	0	0	1	0	6	1	1	0	1	1	3	1	0	0	1	1	2	0	0	0	1	1	3	0	0	0	1	0
IPI00289819	Cation-independent mannose-6-phosphate receptor precursor	S 2484	100% (62.41)	1.0000	11	8	1	1	0	0	1	0	3	1	0	0	0	0	3	0	0	0	1	0	2	1	0	0	1	0	1	0	0	0	1	0	2	0	0	0	0	0
IPI00289907	forty-two-three domain containing 1 isoform 1	S 23	100% (81.96)	1.0000	4	5	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0
IPI00289944	Isoform A of Bromodomain and WD-repeat domain-containing protein 1	S 696	100% (71.95)	1.0000	4	5	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00290071	H326	S 99	100% (1,000.00)	1.0000	8	7	0	0	2	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	1	3	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0
IPI00290094	Splicing factor, arginine/serine-rich 8	S 604	100% (51.89)	1.0000	2	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00290204	Isoform 1 of U1 small nuclear ribonucleoprotein 70 kDa	S 226	100% (38.65)	1.0000	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00290204	Isoform 1 of U1 small nuclear ribonucleoprotein 70 kDa	S 320	100% (1,000.00)	1.0000	4	3	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00290204	Isoform 1 of U1 small nuclear ribonucleoprotein 70 kDa	S 410	100% (1,000.00)	1.0000	2	5	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0
IPI00290272	DNA polymerase alpha subunit B	S 141	100% (74.05)	1.0000	5	8	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	1	2	0	0	0
IPI00290337	Epidermal growth factor receptor kinase substrate 8	S 687	100% (1,000.00)	1.0000	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00290516	IQ motif and WD repeats 1 isoform b	S 336	100% (49.79)	1.0000	3	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00290652	remodeling and spacing factor 1	S 604	100% (1,000.00)	1.0000	11	9	3	4	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	3	0	0	0	0	0	2	1	0	0	0	0
IPI00290652	remodeling and spacing factor 1	S 748	100% (1,000.00)	1.0000	10	8	3	1	0	0	0	0	2	0	0	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0
IPI00290652	remodeling and spacing factor 1	S 1345	100% (1,000.00)	1.0000	17	20	4	2	1	0	0	0	3	1	1	1	0	0	3	0	0	0	1	0	3	1	0	1	1	0	2	1	1	1	1	1	3	1	0	1	1	1
IPI00290952	Isoform 1 of Protein KIAA0179	S 245	100% (58.87)	1.0000	9	9	0	2	2	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	1	1	2	0	0	0
IPI00291032	spectrin domain with coiled-coils 1 NSP5b3b	S 241	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00291175	Isoform 1 of Vinculin	S 720	100% (49.68)	1.0000	8	12	0	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	1	3	0	0	0	0	1	3	0	0	0	0	1	3	0	0	0	0
IPI00291316	Rho₩/rac guanine nucleotide exchange factor (GEF) 2	S 932	100% (1,000.00)	1.0000	3	2	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00291376	Putative RNA methyltransferase NCOA6IP	S 85	100% (1,000.00)	1.0000	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00291376	Putative RNA methyltransferase NCOA6IP	S 89	100% (1,000.00)	1.0000	4	2	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00291510	Inosine-5'-monophosphate dehydrogenase 2	S 416	100% (1,000.00)	1.0000	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00291607	Inositol 1,4,5-trisphosphate receptor type 3	S 916	100% (84.92)	1.0000	7	8	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0
IPI00291738	TMEM40 protein	S 107	100% (95.44)	1.0000	24	27	1	0	0	3	4	1	0	0	0	2	4	1	0	0	0	3	4	1	0	0	0	3	4	1	0	0	0	4	3	1	0	0	0	4	5	2
IPI00291796	BTB (POZ) domain containing 12	S 1044	100% (1,000.00)	1.0000	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00291802	Isoform 3 of LIM domain only protein 7	S 1176	100% (89.95)	1.0000	3	3	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00291839	Isoform 2 of Rap guanine nucleotide exchange factor 6	S 230	100% (1,000.00)	1.0000	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00291916	pleckstrin homology domain interacting protein	S 879	100% (49.35)	1.0000	3	3	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00291916	pleckstrin homology domain interacting protein	S 880	100% (52.59)	1.0000	3	3	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00291916	pleckstrin homology domain interacting protein	S 881	100% (56.47)	1.0000	3	3	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00291916	pleckstrin homology domain interacting protein	S 911	100% (1,000.00)	1.0000	6	6	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00291916	pleckstrin homology domain interacting protein	S 1281	100% (1,000.00)	1.0000	13	10	2	1	0	0	0	0	4	1	0	0	0	0	3	2	0	0	0	0	3	0	0	0	0	0	3	1	0	0	0	0	3	0	0	0	0	0
IPI00291916	pleckstrin homology domain interacting protein	S 1283	100% (1,000.00)	1.0000	13	10	2	1	0	0	0	0	4	1	0	0	0	0	3	2	0	0	0	0	3	0	0	0	0	0	3	1	0	0	0	0	3	0	0	0	0	0
IPI00291939	Structural maintenance of chromosome 1-like 1 protein	S 956	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00291939	Structural maintenance of chromosome 1-like 1 protein	S 957	100% (1,000.00)	1.0000	4	7	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	1	0
IPI00291946	Ubiquitin carboxyl-terminal hydrolase 10	S 581	100% (109.57)	1.0000	15	17	2	2	1	0	0	0	1	3	1	0	0	0	2	2	1	0	0	0	1	3	1	0	0	0	1	3	1	0	0	1	2	2	1	0	0	1
IPI00292009	palladin	S 669	100% (63.58)	1.0000	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	1	0	0	1	1	1	1	0	0	1
IPI00292009	palladin	S 892	100% (1,000.00)	1.0000	2	6	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0
IPI00292009	palladin	S 894	100% (1,000.00)	1.0000	2	9	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	3	0	0	0	0	0	2	0	0	0	0	1	0	1	1	0	0
IPI00292009	palladin	S 897	100% (1,000.00)	1.0000	6	16	1	0	1	0	0	0	0	0	2	0	0	0	1	1	0	0	0	0	1	4	1	1	0	0	0	2	0	1	0	0	1	1	2	2	0	0
IPI00292134	Epidermal growth factor receptor substrate 15	S 796	100% (76.29)	1.0000	4	9	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0
IPI00292134	Epidermal growth factor receptor substrate 15	S 814	100% (1,000.00)	1.0000	3	4	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00292290	Isoform Long of Dematin	S 226	100% (1,000.00)	1.0000	3	2	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00292326	Sperm-associated antigen 1	S 418	100% (65.16)	1.0000	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00292387	Isoform Alpha of Nucleolar phosphoprotein p130	S 397	100% (1,000.00)	1.0000	3	4	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00292387	Isoform Alpha of Nucleolar phosphoprotein p130	S 563	100% (1,000.00)	1.0000	2	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00292387	Isoform Alpha of Nucleolar phosphoprotein p130	S 643	100% (1,000.00)	1.0000	2	6	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0
IPI00292771	Isoform 1 of Nuclear mitotic apparatus protein 1	S 271	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00293426	Probable global transcription activator SNF2L4	S 695	100% (1,000.00)	1.0000	9	8	2	0	0	0	0	0	3	0	0	0	0	0	4	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	4	0	0	0	0	0
IPI00293426	Probable global transcription activator SNF2L4	S 699	100% (1,000.00)	1.0000	2	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00293426	Probable global transcription activator SNF2L4	S 1452	100% (43.92)	1.0000	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00293426	Probable global transcription activator SNF2L4	S 1627	100% (1,000.00)	1.0000	4	2	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00293426	Probable global transcription activator SNF2L4	S 1631	100% (1,000.00)	1.0000	6	2	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00293845	275 kDa protein	S 1456	100% (1,000.00)	1.0000	1	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00293963	Chromodomain Y-like protein	S 201	100% (1,000.00)	1.0000	6	3	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00294618	Proline-rich protein PRCC	S 157	100% (48.49)	1.0000	11	11	1	0	2	1	0	0	1	0	1	1	0	0	1	0	1	2	0	0	0	0	3	0	0	0	0	1	2	1	0	0	1	1	2	0	0	0
IPI00294618	Proline-rich protein PRCC	S 159	100% (49.74)	1.0000	10	7	1	0	1	1	0	0	1	0	2	1	0	0	1	0	1	1	0	0	0	0	1	0	0	0	0	1	1	1	0	0	1	1	1	0	0	0
IPI00294728	Protein DmX-like 1	S 1970	100% (132.84)	1.0000	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00294742	HDCMA18P protein	S 337	100% (51.54)	1.0000	3	9	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0	0	1	1	0	0	0
IPI00294794	Isoform 2 of Protein KIAA0690	S 980	100% (99.23)	1.0000	12	12	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0
IPI00294840	Absent in melanoma 1 protein	S 937	100% (45.03)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00294962	Isoform 1 of SH3-domain kinase-binding protein 1	S 230	100% (1,000.00)	1.0000	6	4	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00295457	myosin phosphatase-Rho interacting protein isoform 1	S 619	100% (57.29)	1.0000	5	12	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	3	0	0	0	0	1	3	0	0	0	0	2	2	0	0	0	0
IPI00295738	Isoform 1B of Mitogen-activated protein kinase kinase kinase 7	S 389	100% (49.76)	1.0000	3	5	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0
IPI00296291	HP1-BP74	S 441	100% (50.63)	1.0000	4	4	0	0	2	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00296291	HP1-BP74	S 442	100% (45.65)	1.0000	4	4	0	0	2	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00296291	HP1-BP74	S 446	100% (41.78)	1.0000	4	4	0	0	2	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00296337	Isoform 1 of DNA-dependent protein kinase catalytic subunit	S 893	100% (1,000.00)	1.0000	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00296337	Isoform 1 of DNA-dependent protein kinase catalytic subunit	S 4026	100% (1,000.00)	1.0000	4	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00296421	PREDICTED: EH domain binding protein 1-like 1 isoform 1	S 191	100% (50.05)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00296421	PREDICTED: EH domain binding protein 1-like 1 isoform 1	S 310	100% (1,000.00)	1.0000	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00296421	PREDICTED: EH domain binding protein 1-like 1 isoform 1	S 1257	100% (54.49)	1.0000	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00296432	Isoform 1 of IWS1-like protein	S 196	100% (1,000.00)	1.0000	8	15	0	2	1	0	0	0	0	2	0	0	0	0	2	1	0	0	0	0	2	3	1	0	0	0	1	2	1	1	0	0	2	2	0	0	0	0
IPI00296432	Isoform 1 of IWS1-like protein	S 198	100% (1,000.00)	1.0000	13	20	0	4	1	0	0	0	0	4	0	0	0	0	1	3	0	0	0	0	1	5	1	0	0	0	1	4	1	1	0	0	2	4	0	0	0	0
IPI00296432	Isoform 1 of IWS1-like protein	S 235	100% (1,000.00)	1.0000	12	9	1	1	1	1	0	0	1	1	1	0	0	0	1	3	0	1	0	0	1	1	1	0	0	0	2	1	1	0	0	0	0	1	1	0	0	0
IPI00296432	Isoform 1 of IWS1-like protein	S 237	100% (1,000.00)	1.0000	12	12	1	1	1	1	0	0	1	2	1	0	0	0	1	2	0	1	0	0	1	2	1	0	0	0	2	3	1	0	0	0	0	1	1	0	0	0
IPI00296432	Isoform 1 of IWS1-like protein	S 287	100% (1,000.00)	1.0000	14	9	1	4	0	0	0	0	1	3	0	0	0	0	1	4	0	0	0	0	1	3	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0
IPI00296432	Isoform 1 of IWS1-like protein	S 289	100% (1,000.00)	1.0000	12	11	1	3	0	0	0	0	1	3	0	0	0	0	1	3	0	0	0	0	1	3	0	0	0	0	1	3	0	0	0	0	1	2	0	0	0	0
IPI00296432	Isoform 1 of IWS1-like protein	S 300	100% (1,000.00)	1.0000	4	6	0	0	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0
IPI00296432	Isoform 1 of IWS1-like protein	S 302	100% (1,000.00)	1.0000	2	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00296432	Isoform 1 of IWS1-like protein	S 304	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00296432	Isoform 1 of IWS1-like protein	S 362	100% (1,000.00)	1.0000	5	5	1	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00296432	Isoform 1 of IWS1-like protein	S 363	100% (1,000.00)	1.0000	6	5	1	2	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00296432	Isoform 1 of IWS1-like protein	S 365	100% (1,000.00)	1.0000	7	5	1	3	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00296432	Isoform 1 of IWS1-like protein	S 377	100% (1,000.00)	1.0000	25	23	2	6	1	0	0	0	1	4	1	0	0	0	3	7	0	0	0	0	2	4	1	0	0	0	1	6	0	0	0	0	3	5	1	0	0	0
IPI00296432	Isoform 1 of IWS1-like protein	S 398	100% (1,000.00)	1.0000	11	16	1	1	0	0	0	0	1	4	0	0	0	0	1	3	0	0	0	0	2	2	1	0	0	0	1	3	0	0	0	0	3	4	0	0	0	0
IPI00296432	Isoform 1 of IWS1-like protein	S 400	100% (1,000.00)	1.0000	11	16	1	1	0	0	0	0	1	4	0	0	0	0	1	3	0	0	0	0	2	2	1	0	0	0	1	3	0	0	0	0	3	4	0	0	0	0
IPI00296432	Isoform 1 of IWS1-like protein	S 438	100% (47.36)	1.0000	24	20	2	7	0	0	0	0	1	6	0	0	0	0	2	6	0	0	0	0	2	6	1	0	0	0	0	4	1	0	0	0	1	5	0	0	0	0
IPI00296432	Isoform 1 of IWS1-like protein	S 440	100% (62.41)	1.0000	25	21	2	7	0	0	0	0	1	6	0	0	0	0	2	7	0	0	0	0	2	6	1	0	0	0	0	4	1	0	0	0	1	6	0	0	0	0
IPI00296432	Isoform 1 of IWS1-like protein	S 511	100% (1,000.00)	1.0000	15	12	1	3	1	1	0	0	1	1	1	0	0	0	1	3	0	1	0	0	1	2	1	0	0	0	1	1	1	0	0	0	1	2	1	1	0	0
IPI00296432	Isoform 1 of IWS1-like protein	S 513	100% (1,000.00)	1.0000	15	13	1	3	1	1	0	0	1	1	1	1	0	0	1	3	0	1	0	0	1	3	1	0	0	0	1	1	1	0	0	0	1	2	1	1	0	0
IPI00296830	Isoform 1 of Leucine zipper protein 1	S 659	100% (85.91)	1.0000	22	19	2	2	1	1	1	0	2	2	1	1	1	0	2	2	2	2	0	0	2	2	1	1	0	0	2	2	1	1	0	0	2	2	1	2	0	0
IPI00296992	AXL receptor tyrosine kinase isoform 1	S 612	100% (1,000.00)	1.0000	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	1	0	0	1	1	0	0	0	0
IPI00297160	CD44 antigen isoform 4 precursor	S 325	100% (1,000.00)	1.0000	36	34	5	3	0	0	2	0	8	1	0	0	4	0	3	3	1	2	4	0	8	3	1	1	2	0	5	3	0	0	1	0	7	2	0	0	1	0
IPI00297211	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A member 5	S 66	100% (81.39)	1.0000	25	27	3	5	0	0	0	0	3	5	0	0	0	0	3	6	0	0	0	0	5	5	0	0	0	0	4	5	0	0	0	0	4	4	0	0	0	0
IPI00297211	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A member 5	S 755	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00297254	Signal-induced proliferation-associated 1-like protein 3	S 146	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00297254	Signal-induced proliferation-associated 1-like protein 3	S 1364	100% (62.71)	1.0000	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00297261	Tyrosine-protein phosphatase non-receptor type 1	S 295	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00297261	Tyrosine-protein phosphatase non-receptor type 1	S 352	100% (71.25)	1.0000	2	6	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0
IPI00297322	Zinc finger protein 289, ID1 regulated	S 146	100% (92.62)	1.0000	30	29	3	2	2	2	2	0	3	2	2	2	1	0	3	1	2	2	1	0	2	2	2	2	0	0	3	2	3	3	1	0	2	2	3	2	0	0
IPI00297593	Ubiquitin-specific proteinase 34	S 2488	100% (55.21)	1.0000	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00297655	Neurogenic locus notch homolog protein 2 precursor	S 1778	100% (1,000.00)	1.0000	1	5	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	1	0	1	0	0	0
IPI00297723	RNA-binding protein 6	S 1025	100% (51.23)	1.0000	4	4	0	1	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	1	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00297851	chromodomain helicase DNA binding protein 1	S 215	100% (85.85)	1.0000	5	6	1	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00297851	chromodomain helicase DNA binding protein 1	S 216	100% (91.87)	1.0000	5	6	1	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00297851	chromodomain helicase DNA binding protein 1	S 1689	100% (39.66)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00297859	Isoform 1 of Myeloid/lymphoid or mixed-lineage leukemia protein 2	S 1396	100% (82.87)	1.0000	5	1	1	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00297859	Isoform 1 of Myeloid/lymphoid or mixed-lineage leukemia protein 2	S 4463	100% (1,000.00)	1.0000	6	2	1	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00297910	Tumor-associated calcium signal transducer 2 precursor	S 322	100% (1,000.00)	1.0000	3	2	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00298057	Periplakin	S 887	100% (1,000.00)	1.0000	3	3	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00298057	Periplakin	S 1657	100% (79.93)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00298696	Treacle protein	S 369	100% (57.71)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00298696	Treacle protein	S 829	100% (1,000.00)	1.0000	8	10	1	2	2	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	1	1	0	2	0	0	3	1	0	0	0	0	1	1	0	0	0	0
IPI00298696	Treacle protein	S 1180	100% (1,000.00)	1.0000	4	5	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00298696	Treacle protein	S 1273	100% (1,000.00)	1.0000	5	5	1	1	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0
IPI00298696	Treacle protein	S 1301	100% (46.10)	1.0000	59	42	3	4	4	4	4	0	5	2	4	5	4	0	5	2	4	4	5	0	3	4	3	5	1	0	2	2	3	3	2	0	5	1	3	3	2	0
IPI00299033	Importin alpha-3 subunit	S 60	100% (39.78)	1.0000	7	7	0	0	1	1	0	0	0	1	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	1	1	1	0	0
IPI00299063	Stromal interaction molecule 1 precursor	S 575	100% (1,000.00)	1.0000	8	9	0	1	0	0	0	0	0	2	1	0	0	0	3	1	0	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	3	1	0	0	0
IPI00299254	Eukaryotic translation initiation factor 5B	S 107	100% (76.32)	1.0000	5	6	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0
IPI00299254	Eukaryotic translation initiation factor 5B	S 113	100% (95.44)	1.0000	33	32	6	3	1	1	0	0	9	1	1	1	0	0	8	1	1	0	0	0	6	3	2	0	0	0	5	3	1	0	0	0	6	3	2	1	0	0
IPI00299254	Eukaryotic translation initiation factor 5B	S 164	100% (84.11)	1.0000	24	29	5	2	2	0	0	0	6	1	2	0	0	0	4	2	0	0	0	0	5	3	2	0	0	0	4	5	1	0	0	0	5	3	1	0	0	0
IPI00299254	Eukaryotic translation initiation factor 5B	S 214	100% (83.64)	1.0000	32	35	5	2	2	2	0	0	5	2	2	1	0	0	6	2	2	1	0	0	5	2	1	2	0	0	4	3	2	1	1	1	5	4	1	2	0	1
IPI00299254	Eukaryotic translation initiation factor 5B	S 1168	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00299571	CDNA FLJ45525 fis, clone BRTHA2026311, highly similar to Protein disulfide isomerase A6	S 480	100% (1,000.00)	1.0000	3	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	2	3	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00299608	Isoform 1 of 26S proteasome non-ATPase regulatory subunit 1	S 315	100% (111.08)	1.0000	5	6	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00299824	Isoform 1 of Connector enhancer of kinase suppressor of ras 1	S 300	100% (1,000.00)	1.0000	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00300384	Receptor tyrosine-protein kinase erbB-2 precursor	S 1078	100% (47.30)	1.0000	4	1	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00300384	Receptor tyrosine-protein kinase erbB-2 precursor	S 1083	100% (64.78)	1.0000	15	11	3	2	0	0	0	0	3	2	0	0	0	0	3	2	0	0	0	0	3	0	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0
IPI00301250	Isoform 1 of Epidermal growth factor receptor kinase substrate 8-like protein 1	S 182	100% (1,000.00)	1.0000	12	12	0	1	0	0	1	0	1	2	0	0	1	0	1	2	2	0	1	0	0	0	2	0	0	0	1	1	2	1	0	0	1	2	2	0	0	0
IPI00301263	CAD protein	S 1859	100% (1,000.00)	1.0000	18	18	3	1	0	1	0	0	6	1	0	1	0	0	3	1	0	1	0	0	5	0	0	0	0	0	4	1	0	0	0	0	5	1	0	1	0	1
IPI00301293	antigen identified by monoclonal antibody Ki-67	S 308	100% (106.19)	1.0000	9	25	1	0	0	2	0	0	1	0	0	1	0	0	1	0	1	2	0	0	3	1	2	3	0	0	1	1	2	3	0	0	3	1	2	3	0	0
IPI00301294	Protein C2orf17	S 385	100% (1,000.00)	1.0000	18	15	1	1	3	1	0	0	1	1	3	1	0	0	1	1	3	1	0	0	1	1	2	0	0	0	1	1	2	1	1	0	1	1	2	1	0	0
IPI00301311	Isoform 2 of Protein SET	S 50	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00301421	Isoform 1 of Nuclear-interacting partner of ALK	S 321	100% (1,000.00)	1.0000	5	6	0	0	1	0	0	0	0	0	1	0	0	0	2	0	0	1	0	0	1	1	0	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0
IPI00301465	hypothetical protein LOC55355	S 473	100% (56.78)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00301618	Isoform 1 of Serologically defined colon cancer antigen 1	S 417	100% (73.31)	1.0000	15	12	2	3	0	0	0	0	2	2	0	0	0	0	3	3	0	0	0	0	2	2	0	0	0	0	3	2	0	0	0	0	3	0	0	0	0	0
IPI00301844	Zinc finger and homeobox protein 3	S 680	100% (59.46)	1.0000	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00301844	Zinc finger and homeobox protein 3	S 723	100% (1,000.00)	1.0000	11	11	1	1	1	1	0	0	1	1	0	1	0	0	1	1	1	1	0	0	1	1	1	1	0	0	1	1	0	1	0	0	1	1	1	1	0	0
IPI00302238	Protein AATF	S 203	100% (102.90)	1.0000	12	12	1	2	2	0	0	0	0	2	2	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0
IPI00302594	hypothetical protein LOC91748	S 461	100% (51.63)	1.0000	7	6	2	1	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0
IPI00302829	Retinoblastoma-associated protein	S 37	100% (108.57)	1.0000	5	7	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0
IPI00302829	Retinoblastoma-associated protein	S 249	100% (79.03)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00303063	SCC-112 protein	S 1018	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00303063	SCC-112 protein	S 1305	100% (1,000.00)	1.0000	7	6	1	1	0	0	1	0	0	1	0	0	1	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	1	0	0
IPI00303343	Serine arginine-rich pre-mRNA splicing factor SR-A1	S 498	100% (83.49)	1.0000	17	25	2	1	0	0	0	0	4	3	0	0	0	0	3	3	1	0	0	0	5	3	0	0	0	0	5	3	0	0	0	0	5	4	0	0	0	0
IPI00303343	Serine arginine-rich pre-mRNA splicing factor SR-A1	S 500	100% (84.18)	1.0000	19	20	3	1	0	0	0	0	3	4	0	0	0	0	4	3	1	0	0	0	4	2	0	0	0	0	4	3	0	0	0	0	4	3	0	0	0	0
IPI00303343	Serine arginine-rich pre-mRNA splicing factor SR-A1	S 612	100% (89.11)	1.0000	10	9	1	1	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	2	2	0	0	0	0
IPI00303343	Serine arginine-rich pre-mRNA splicing factor SR-A1	S 614	100% (102.98)	1.0000	10	9	1	1	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	2	2	0	0	0	0
IPI00303343	Serine arginine-rich pre-mRNA splicing factor SR-A1	S 874	100% (1,000.00)	1.0000	2	7	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0
IPI00303812	Protein C9orf82	S 203	100% (88.73)	1.0000	5	7	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0
IPI00303868	Glycogen [starch] synthase, muscle	S 652	100% (1,000.00)	1.0000	5	9	0	0	2	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	1	1	0	0	0	0	4	1	0	0	0	0	0	1	0	0	0
IPI00303868	Glycogen [starch] synthase, muscle	S 653	100% (1,000.00)	1.0000	20	21	1	3	1	0	0	0	1	4	3	0	0	0	2	5	0	0	0	0	1	4	4	0	0	0	1	2	2	0	0	0	2	3	2	0	0	0
IPI00303868	Glycogen [starch] synthase, muscle	S 657	100% (1,000.00)	1.0000	17	21	1	2	2	0	0	0	1	3	2	0	0	0	2	4	0	0	0	0	2	3	3	0	0	0	1	4	2	0	0	0	2	2	2	0	0	0
IPI00303954	cytochrome b5 outer mitochondrial membrane precursor	S 37	100% (1,000.00)	1.0000	9	14	0	0	0	0	2	2	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	1	4	1	0	0	0	2	2	0	0	0	0	2	2	0
IPI00303999	Isoform PML-2 of Probable transcription factor PML	S 527	100% (59.60)	1.0000	2	5	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0
IPI00304000	Isoform PML-3 of Probable transcription factor PML	S 527	100% (59.60)	1.0000	2	5	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0
IPI00304587	dispatched B	S 1252	100% (1,000.00)	1.0000	16	8	5	0	0	1	2	0	3	0	0	0	1	0	3	0	0	0	1	0	3	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0
IPI00304587	dispatched B	S 1263	100% (1,000.00)	1.0000	5	3	2	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00304587	dispatched B	S 1270	100% (1,000.00)	1.0000	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00304589	182 kDa tankyrase 1-binding protein	S 178	100% (1,000.00)	1.0000	2	5	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00304589	182 kDa tankyrase 1-binding protein	S 836	100% (1,000.00)	1.0000	5	8	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	3	0	0	0	0	0
IPI00304589	182 kDa tankyrase 1-binding protein	S 1103	100% (42.01)	1.0000	2	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR															
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00304589	182 kDa tankyrase 1-binding protein	S 1620	100% (176.81)	1.0000	18	24	2	2	1	1	1	0	2	1	1	1	1	0	1	1	1	1	1	0	4	2	2	2	1	0	2	2	1	1	0	0	1	3	2	1	0	0
IPI00304589	182 kDa tankyrase 1-binding protein	S 1621	100% (156.02)	1.0000	20	23	3	2	1	1	1	0	3	1	1	1	1	0	1	1	1	1	1	0	3	2	2	2	1	0	2	2	1	1	0	0	1	3	2	1	0	0
IPI00304589	182 kDa tankyrase 1-binding protein	S 1666	100% (138.31)	1.0000	19	19	3	2	1	0	1	1	1	1	1	0	1	1	2	2	1	0	0	1	2	2	1	0	2	0	2	2	1	0	1	0	1	2	0	0	2	1
IPI00304692	Heterogeneous nuclear ribonucleoprotein G	S 352	100% (1,000.00)	1.0000	9	15	0	0	0	4	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	4	4	0	0	0	0	2	1	0	0	0	0	3	1	0	0
IPI00304740	Isoform 1 of Intersectin-1	S 1306	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00304742	Serine/threonine-protein kinase 10	S 438	100% (1,000.00)	1.0000	3	2	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00304875	Isoform 1 of HIRA-interacting protein 3	S 125	100% (1,000.00)	1.0000	2	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00304875	Isoform 1 of HIRA-interacting protein 3	S 142	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00304875	Isoform 1 of HIRA-interacting protein 3	S 143	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00304875	Isoform 1 of HIRA-interacting protein 3	S 159	100% (43.16)	1.0000	7	2	0	0	2	0	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00304875	Isoform 1 of HIRA-interacting protein 3	S 160	100% (46.70)	1.0000	7	2	0	0	2	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00304875	Isoform 1 of HIRA-interacting protein 3	S 196	100% (1,000.00)	1.0000	19	8	1	1	5	0	0	0	1	2	4	0	0	0	0	1	3	1	0	0	0	0	2	1	0	0	0	1	1	0	0	0	0	2	1	0	0	0
IPI00304875	Isoform 1 of HIRA-interacting protein 3	S 199	100% (1,000.00)	1.0000	5	2	0	0	2	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00304875	Isoform 1 of HIRA-interacting protein 3	S 227	100% (51.96)	1.0000	9	7	0	1	3	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	3	0	0	0	0	2	0	0	0	0
IPI00304875	Isoform 1 of HIRA-interacting protein 3	S 370	100% (45.01)	1.0000	20	13	0	2	2	2	0	0	0	2	3	1	0	0	0	2	4	2	0	0	0	2	2	1	0	0	0	0	2	1	0	0	0	1	3	1	0	0
IPI00305064	Isoform CD44 of CD44 antigen precursor	S 706	100% (1,000.00)	1.0000	36	34	5	3	0	0	2	0	8	1	0	0	4	0	3	3	1	2	4	0	8	3	1	1	2	0	5	3	0	0	1	0	7	2	0	0	1	0
IPI00305152	SEC31L1 protein	S 799	100% (1,000.00)	1.0000	15	17	2	4	0	0	0	0	2	3	0	1	0	0	1	2	0	0	0	0	3	2	1	1	0	0	4	2	0	0	0	0	2	2	0	0	0	0
IPI00305374	THO complex subunit 1	S 560	100% (53.37)	1.0000	6	6	0	1	3	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0
IPI00305545	debranching enzyme homolog 1	S 514	100% (1,000.00)	1.0000	1	4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	1	0	0	0	0	0
IPI00306195	CDNA FLJ30949 fis, clone HCASM1000021, weakly similar to Plasmodium berghei strain NYU2 merozoite	S 203	100% (49.79)	1.0000	3	5	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	1	1	0	0	0
IPI00306332	60S ribosomal protein L24	S 149	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00306667	Isoform CNPII of 2',3'-cyclic-nucleotide 3'-phosphodiesterase	S 170	100% (1,000.00)	1.0000	1	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00306723	CCAAT/enhancer-binding protein zeta	S 629	100% (48.16)	1.0000	10	9	1	2	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0
IPI00306749	Kanadaptin	S 82	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00306749	Kanadaptin	S 312	100% (106.73)	1.0000	14	13	1	3	1	0	0	0	0	3	1	0	0	0	1	3	1	0	0	0	0	3	0	0	0	0	1	4	0	0	0	0	1	3	1	0	0	0
IPI00306933	Isoform Short of Myosin-9B	S 1122	100% (74.79)	1.0000	8	8	3	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0
IPI00306933	Isoform Short of Myosin-9B	S 1267	100% (37.82)	1.0000	6	5	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00307162	vinculin isoform meta-VCL	S 721	100% (49.68)	1.0000	8	12	0	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	1	3	0	0	0	0	1	3	0	0	0	0	1	3	0	0	0	0
IPI00307592	ATP-binding cassette, sub-family A, member 2 isoform a	S 1328	100% (48.54)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00307592	ATP-binding cassette, sub-family A, member 2 isoform a	S 1332	100% (56.18)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00328089	Kappa B and V(D)J recombination signal sequences binding protein	S 2028	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00328089	Kappa B and V(D)J recombination signal sequences binding protein	S 2034	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00328272	Isoform 1 of Probable palmitoyltransferase ZDHHC5	S 380	100% (77.53)	1.0000	13	12	2	2	0	0	1	0	1	2	0	1	0	0	2	1	0	1	0	0	1	2	0	0	0	0	2	2	1	1	0	0	2	1	0	0	0	0
IPI00328293	Serine₩/arginine repetitive matrix 1	S 260	100% (1,000.00)	1.0000	24	25	4	2	1	0	0	0	5	1	2	0	0	0	3	3	2	1	0	0	4	4	1	0	0	0	3	3	1	0	0	1	3	3	1	0	0	1
IPI00328293	Serine₩/arginine repetitive matrix 1	S 384	100% (1,000.00)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00328293	Serine₩/arginine repetitive matrix 1	S 386	100% (1,000.00)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00328293	Serine₩/arginine repetitive matrix 1	S 388	100% (1,000.00)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00328293	Serine₩/arginine repetitive matrix 1	S 397	100% (1,000.00)	1.0000	32	34	7	5	2	0	0	0	6	3	1	0	0	0	4	4	0	0	0	0	4	3	0	0	0	0	8	4	2	0	0	0	5	6	2	0	0	0
IPI00328293	Serine₩/arginine repetitive matrix 1	S 424	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00328293	Serine₩/arginine repetitive matrix 1	S 426	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00328293	Serine₩/arginine repetitive matrix 1	S 445	100% (1,000.00)	1.0000	16	14	3	3	1	0	0	0	3	3	1	0	0	0	1	1	0	0	0	0	2	2	1	0	0	0	2	1	1	1	0	1	2	0	0	0	0	1
IPI00328293	Serine₩/arginine repetitive matrix 1	S 447	100% (1,000.00)	1.0000	6	3	2	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00328293	Serine₩/arginine repetitive matrix 1	S 458	100% (1,000.00)	1.0000	12	9	2	1	1	0	0	0	2	2	1	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0
IPI00328293	Serine₩/arginine repetitive matrix 1	S 460	100% (1,000.00)	1.0000	3	3	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00328293	Serine₩/arginine repetitive matrix 1	S 569	100% (1,000.00)	1.0000	9	8	1	3	0	0	0	0	1	2	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	2	3	0	0	0
IPI00328293	Serine₩/arginine repetitive matrix 1	S 571	100% (1,000.00)	1.0000	3	4	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	2	0	0	0
IPI00328293	Serine₩/arginine repetitive matrix 1	S 592	100% (1,000.00)	1.0000	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00328293	Serine₩/arginine repetitive matrix 1	S 625	100% (1,000.00)	1.0000	18	18	3	3	0	0	0	0	3	4	0	0	0	0	3	1	1	0	0	0	2	2	0	0	0	0	5	3	0	0	0	0	4	2	0	0	0	0
IPI00328293	Serine₩/arginine repetitive matrix 1	S 645	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00328293	Serine₩/arginine repetitive matrix 1	S 647	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00328293	Serine₩/arginine repetitive matrix 1	S 684	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00328293	Serine₩/arginine repetitive matrix 1	S 747	100% (61.30)	1.0000	14	18	3	1	0	0	0	0	2	1	0	1	0	0	3	2	0	1	0	0	3	3	0	0	0	0	3	1	2	1	0	0	2	0	0	3	0	0
IPI00328293	Serine₩/arginine repetitive matrix 1	S 749	100% (38.16)	1.0000	8	11	2	0	0	0	0	0	2	0	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	1	1	0	0	0	2	0	0	1	0	0
IPI00328293	Serine₩/arginine repetitive matrix 1	S 883	100% (1,000.00)	1.0000	32	32	3	3	1	1	1	0	3	3	1	2	1	0	5	4	2	2	0	0	5	2	1	1	0	0	3	4	1	1	1	0	5	4	1	1	1	1
IPI00328342	Isoform 1 of Sodium bicarbonate cotransporter 3	S 242	100% (1,000.00)	1.0000	5	6	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	1	0	0
IPI00328715	Protein LYRIC	S 426	100% (107.72)	1.0000	11	8	0	2	1	1	0	0	0	1	0	0	0	0	0	3	2	1	0	0	1	2	1	1	0	0	0	0	0	0	0	0	0	3	0	0	0	0
IPI00328798	DLNB11 protein	S 21	100% (1,000.00)	1.0000	2	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00328798	DLNB11 protein	S 25	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00328798	DLNB11 protein	S 750	100% (41.57)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00328835	Isoform 1 of Serine/threonine-protein kinase 32C	S 392	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00328835	Isoform 1 of Serine/threonine-protein kinase 32C	S 457	100% (44.42)	1.0000	3	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00328905	185 kDa protein	S 539	100% (83.29)	1.0000	4	6	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00328929	Conserved nuclear protein NHN1	S 46	100% (84.11)	1.0000	5	6	2	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	2	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0
IPI00328929	Conserved nuclear protein NHN1	S 67	100% (83.64)	1.0000	14	15	3	3	0	0	0	0	3	2	0	0	0	0	2	1	0	0	0	0	4	2	0	0	0	0	3	2	0	0	0	0	2	2	0	0	0	0
IPI00328987	Bystin	S 98	100% (115.45)	1.0000	9	11	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	3	0	0	0	0	2	3	0	0	0	0	2	1	0	0	0	1	1	1	0	0
IPI00329005	Isoform 2 of Aftiphilin	S 674	100% (51.13)	1.0000	4	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00329115	Isoform 1 of Protein C10orf47	S 179	100% (1,000.00)	1.0000	1	5	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00329291	Isoform 2 of StAR-related lipid transfer protein 13	S 381	100% (1,000.00)	1.0000	3	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	S 64	100% (1,000.00)	1.0000	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	S 137	100% (60.15)	1.0000	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	S 198	100% (1,000.00)	1.0000	6	5	2	1	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	S 265	100% (1,000.00)	1.0000	22	16	7	1	0	0	0	6	0	0	0	0	0	8	0	0	0	0	0	0	6	0	0	0	0	0	5	0	0	0	0	5	0	0	0	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	S 831	100% (1,000.00)	1.0000	4	4	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	S 833	100% (1,000.00)	1.0000	4	4	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	S 837	100% (1,000.00)	1.0000	4	4	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	S 1010	100% (65.86)	1.0000	3	3	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	S 1014	100% (85.92)	1.0000	7	1	3	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	S 1017	100% (71.29)	1.0000	14	9	5	0	0	0	0	0	4	1	0	0	0	0	4	0	0	0	0	0	1	0	0	0	0	0	4	0	0	0	0	4	0	0	0	0	0	0
IPI00329572	Protein kinase C and casein kinase substrate in neurons protein 3	S 276	100% (1,000.00)	1.0000	2	5	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	0	1	0	0
IPI00329572	Protein kinase C and casein kinase substrate in neurons protein 3	S 320	100% (72.78)	1.0000	10	15	0	0	0	3	0	0	0	0	0	3	0	0	0	0	1	3	0	0	0	0	2	3	0	0	0	0	2	3	0	0	0	0	2	3	0	0
IPI00329635	Isoform 1 of Folliculin	S 62	100% (102.87)	1.0000	5	5	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0
IPI00329692	Isoform Long of Glycylpeptide N-tetradecanoyltransferase 1	S 47	100% (96.85)	1.0000	10	11	1	0	2	0	0	0	2	0	1	0	0	0	2	0	1	1	0	0	1	0	2	0	1	0	2	0	2	0	0	0	2	0	1	0	0	0
IPI00329694	Isoform 2 of Golgin subfamily A member 4	S 71	100% (47.36)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00329791	Probable ATP-dependent RNA helicase DDX46	S 804	100% (157.58)	1.0000	9	6	1	2	0	0	0	0	2	1	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00332110	promyelocytic leukemia protein isoform 9	S 527	100% (59.60)	1.0000	2	5	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0
IPI00332499	nuclear autoantigenic sperm protein isoform 1	S 453	100% (40.62)	1.0000	6	4	1	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0
IPI00332499	nuclear autoantigenic sperm protein isoform 1	S 482	100% (1,000.00)	1.0000	21	18	2	7	0	0	0	0	2	4	0	0	0	0	2	4	0	0	0	0	2	4	0	0	0	0	1	5	0	0	0	0	2	4	0	0	0	0
IPI00332499	nuclear autoantigenic sperm protein isoform 1	S 505	100% (1,000.00)	1.0000	5	8	0	2	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	1	2	2	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0
IPI00332642	Isoform 2 of Protein C6orf106	S 149	100% (1,000.00)	1.0000	3	3	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0
IPI00333010	SR-related CTD associated factor 6	S 683	100% (1,000.00)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00333771	Isoform 5 of Caldesmon	S 196	100% (1,000.00)	1.0000	25	23	2	2	2	2	0	0	2	3	2	2	0	0	2	2	2	2	0	0	2	2	3	2	0	0	2	2	3	1	0	0	1	3	2	0	0	0
IPI00333858	zinc finger RNA binding protein	S 1054	100% (1,000.00)	1.0000	21	22	2	2	4	0	0	0	3	1	2	0	0	0	4	2	1	0	0	0	3	3	2	0	0	0	5	2	1	0	0	0	4	1	1	0	0	0
IPI00334126	Ral GEF with PH domain and SH3 binding motif 2, isoform 2	S 329	100% (94.43)	1.0000	4	5	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0
IPI00334713	Isoform 3 of Heterogeneous nuclear ribonucleoprotein A/B	S 255	100% (111.01)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00335437	CDNA FLJ13144 fis, clone NT2RP3003278	S 398	100% (1,000.00)	1.0000	1	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0
IPI00335641	Isoform 1 of MKL/myocardin-like protein 2	S 66	100% (1,000.00)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
IPI00336047	Isoform Long of Myosin-9B	S 1122	100% (74.79)	1.0000	8	8	3	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	3	0	0	0	0	0	0
IPI00336047	Isoform Long of Myosin-9B	S 1267	100% (37.82)	1.0000	6	5	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0
IPI00337315	Isoform 1 of Retinoblastoma-binding protein 6	S 1179	100% (85.52)	1.0000	9	9	2	1	0	0	0	0	3	0	0	0	0	0	2	1	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	4	0	0	0	0	0	0
IPI00337315	Isoform 1 of Retinoblastoma-binding protein 6	S 1328	100% (1,000.00)	1.0000	6	5	2	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00337385	Isoform 1 of Pre-mRNA-processing factor 40 homolog A	S 883	100% (1,000.00)	1.0000	8	10	2	2	0	0	0	0	1	1	0	0	0	0	0	1	0	1	0	0	2	3	1	0	0	0	1	2	0	0	0	0	1	0	0	0	0	0
IPI00337385	Isoform 1 of Pre-mRNA-processing factor 40 homolog A	S 885	100% (1,000.00)	1.0000	13	15	2	4	0	0	0	0	2	2	0	0	0	0	1	1	0	1	0	0	2	4	1	0	0	0	2	4	0	0	0	0	1	1	0	0	0	0
IPI00337385	Isoform 1 of Pre-mRNA-processing factor 40 homolog A	S 888	100% (1,000.00)	1.0000	20	24	3	7	0	0	0	0	3	2	0	0	0	0	2	2	0	1	0	0	2	5	1	0	0	0	3	7	0	0	0	0	2	4	0	0	0	0
IPI00337386	Isoform 2 of Pre-mRNA-processing factor 40 homolog A	S 841	100% (1,000.00)	1.0000	8	10	2	2	0	0	0	0	1	1	0	0	0	0	0	1	0	1	0	0	2	3	1	0	0	0	1	2	0	0	0	0	1	0	0	0	0	0
IPI00337386	Isoform 2 of Pre-mRNA-processing factor 40 homolog A	S 843	100% (1,000.00)	1.0000	13	15	2	4	0	0	0	0	2	2	0	0	0	0	1	1	0	1	0	0	2	4	1	0	0	0	2	4	0	0	0	0	1	1	0	0	0	0
IPI00337386	Isoform 2 of Pre-mRNA-processing factor 40 homolog A	S 846	100% (1,000.00)	1.0000	20	24	3	7	0	0	0	0	3	2	0	0	0	0	2	2	0	1	0	0	2	5	1	0	0	0	3	7	0	0	0	0	2	4	0	0	0	0
IPI00337387	Isoform 3 of Pre-mRNA-processing factor 40 homolog A	S 865	100% (1,000.00)	1.0000	8	10	2	2	0	0	0	0	1	1	0	0	0	0	0	1	0	1	0	0	2	3	1	0	0	0	1	2	0	0	0	0	1	0	0	0	0	0
IPI00337387	Isoform 3 of Pre-mRNA-processing factor 40 homolog A	S 867	100% (1,000.00)	1.0000	13	15	2	4	0	0	0	0	2	2	0	0	0	0	1	1	0	1	0	0	2	4	1	0	0	0	2	4	0	0	0	0	1	1	0	0	0	0
IPI00337387	Isoform 3 of Pre-mRNA-processing factor 40 homolog A	S 870	100% (1,000.00)	1.0000	20	24	3	7	0	0	0	0	3	2	0	0	0	0	2	2	0	1	0	0	2	5	1	0	0	0	3	7	0	0	0	0	2	4	0	0	0	0
IPI00337641	Isoform 1 of Tetratricopeptide repeat protein 7B	S 100	100% (60.12)	1.0000	1	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00337663	ARS2 protein	S 74	100% (1,000.00)	1.0000	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00337667	Isoform 2 of Cytoskeleton-like bicaudal D protein homolog 2	S 582	100% (1,000.00)	1.0000	1	4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00337694	Isoform 1 of Rap guanine nucleotide exchange factor 6	S 230	100% (1,000.00)	1.0000	3	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00337696	Isoform 3 of Rap guanine nucleotide exchange factor 6	S 230	100% (1,000.00)	1.0000	3	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00337736	Isoform 2 of Kinectin	S 75	100% (49.79)	1.0000	34	31	4	0	1	5	2	0	7	0	0	6	2	0	3	0	0	2	2	0	5	0	1	6	0	0	3	0	0	5	2	0	4	0	0	3	2	0
IPI00339382	Isoform 2 of Nuclear-interacting partner of ALK	S 300	100% (1,000.00)	1.0000	5	6	0	0	1	0	0	0	0	0	1	0	0	0	2	0	0	1	0	0	1	1	0	0	0	0	1	0	0	1	0	0	1	0	1	0	0	0
IPI00373869	Homeodomain-like containing protein	S 96	100% (102.90)	1.0000	13	7	0	0	0	0	4	0	0	0	0	0	5	0	0	0	0	4	0	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	1	2	0	0
IPI00373870	Isoform 1 of Chromodomain helicase-DNA-binding protein 3	S 1601	100% (65.52)	1.0000	9	6	4	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	3	0	0	0	0	0	0
IPI00373870	Isoform 1 of Chromodomain helicase-DNA-binding protein 3	S 1605	100% (86.20)	1.0000	6	3	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0
IPI00374770	microtubule-associated protein 1B isoform 2	S 1653	100% (84.88)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00374770	microtubule-associated protein 1B isoform 2	S 2083	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00374770	microtubule-associated protein 1B isoform 2	S 2085	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00375124	Ubiquitin carboxyl-terminal hydrolase 42	S 856	100% (94.51)	1.0000	6	6	1	1	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00375124	Ubiquitin carboxyl-terminal hydrolase 42	S 1007	100% (1,000.00)	1.0000	2	4	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00375144	Isoform A of Arsenite-resistance protein 2	S 74	100% (1,000.00)	1.0000	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00375220	Isoform 1 of Nance-Horan syndrome protein	S 394	100% (54.70)	1.0000	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0
IPI00375358	Isoform 1 of Replication factor C subunit 1	S 156	100% (1,000.00)	1.0000	19	20	3	2	1	1	0	0	3	1	1	0	0	0	3	2	1	1	0	0	3	2	1	1	0	0	2	3	0	1	0	0	3	2	1	1	0	0
IPI00375359	Isoform 2 of Replication factor C subunit 1	S 156	100% (1,000.00)	1.0000	19	20	3	2	1	1	0	0	3	1	1	0	0	0	3	2	1	1	0	0	3	2	1	1	0	0	2	3	0	1	0	0	3	2	1	1	0	0
IPI00375454	Isoform 2 of Telomere-associated protein RIF1	S 1456	100% (1,000.00)	1.0000	1	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00375731	Hypothetical protein DKFZp686E2459	S 788	100% (56.51)	1.0000	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00375731	Hypothetical protein DKFZp686E2459	S 862	100% (1,000.00)	1.0000	10	8	1	2	0	0	0	0	2	2	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0
IPI00376199	Interferon regulatory factor 2 binding protein 2	S 175	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00376199	Interferon regulatory factor 2 binding protein 2	S 360	100% (1,000.00)	1.0000	5	13	0	1	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	1	1	1	0	0	0	1	3	1	0	0	0	1	2	2	0	0
IPI00376283	Isoform 2 of Retinoblastoma-binding protein 6	S 1145	100% (85.52)	1.0000	9	9	2	1	0	0	0	3	0	0	0	0	2	1	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	4	0	0	0	0	0	0	0	0
IPI00376283	Isoform 2 of Retinoblastoma-binding protein 6	S 1294	100% (1,000.00)	1.0000	6	5	2	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0
IPI00376404	fetal Alzheimer antigen isoform 2	S 216	100% (1,000.00)	1.0000	4	3	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0
IPI00376493	PHD finger protein 2 isoform b	S 625	100% (1,000.00)	1.0000	4	10	1	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	1	2	0	0	0	1	2	0	0	0	0	0
IPI00376933	HLA-B associated transcript-2 isoform b	S 342	100% (1,000.00)	1.0000	15	16	3	2	0	0	0	0	3	3	0	0	0	0	2	2	0	0	0	0	1	1	0	0	0	0	4	3	1	0	0	0	3	2	1	0	0	0
IPI00376933	HLA-B associated transcript-2 isoform b	S 350	100% (1,000.00)	1.0000	15	16	3	2	0	0	0	0	3	3	0	0	0	0	2	2	0	0	0	0	1	1	0	0	0	0	4	3	1	0	0	0	3	2	1	0	0	0
IPI00376976	Isoform 1 of 130-kDa phosphatidylinositol 4,5-biphosphate-dependent ARF1 GTPase- activating protein	S 720	100% (1,000.00)	1.0000	16	15	1	4	0	0	0	0	6	0	0	0	0	1	4	0	0	0	0	0	0	5	0	0	0	0	2	3	0	0	0	0	1	4	0	0	0	0
IPI00376976	Isoform 1 of 130-kDa phosphatidylinositol 4,5-biphosphate-dependent ARF1 GTPase- activating protein	S 729	100% (1,000.00)	1.0000	5	7	1	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0
IPI00377152	Isoform 2 of U4/U6 small nuclear ribonucleoprotein Prp3	S 618	100% (1,000.00)	1.0000	19	17	3	2	1	0	1	0	1	3	1	0	0	0	2	4	1	0	0	0	2	3	2	1	0	0	1	2	0	0	1	0	1	3	1	0	0	0
IPI00377154	bromodomain adjacent to zinc finger domain, 1B	S 1147	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00377154	bromodomain adjacent to zinc finger domain, 1B	S 1468	100% (79.03)	1.0000	19	16	2	1	1	0	1	0	3	1	1	0	1	1	3	1	1	1	1	0	3	1	1	1	0	0	2	0	1	0	1	1	2	0	1	0	1	1
IPI00377244	Isoform 2 of Myeloid/lymphoid or mixed-lineage leukemia protein 2	S 1091	100% (82.87)	1.0000	5	1	1	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00377244	Isoform 2 of Myeloid/lymphoid or mixed-lineage leukemia protein 2	S 4158	100% (1,000.00)	1.0000	6	2	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00377245	Isoform 3 of Myeloid/lymphoid or mixed-lineage leukemia protein 2	S 1396	100% (82.87)	1.0000	5	1	1	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00377245	Isoform 3 of Myeloid/lymphoid or mixed-lineage leukemia protein 2	S 4466	100% (1,000.00)	1.0000	6	2	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00382470	Heat shock protein HSP 90-alpha 2	S 353	100% (1,000.00)	1.0000	43	34	2	8	5	1	0	0	2	9	4	0	0	0	4	8	0	0	0	0	1	6	3	1	0	0	1	6	5	0	0	1	1	5	4	0	0	0
IPI00382470	Heat shock protein HSP 90-alpha 2	S 385	100% (1,000.00)	1.0000	34	38	2	6	2	1	0	0	2	6	2	0	0	0	4	6	3	0	0	0	3	7	2	1	0	0	2	6	2	2	1	0	3	6	2	0	0	1
IPI00382585	182 kDa protein	S 1002	100% (85.52)	1.0000	9	9	2	1	0	0	0	3	0	0	0	0	0	2	1	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	4	0	0	0	0	0
IPI00382585	182 kDa protein	S 1151	100% (1,000.00)	1.0000	6	5	2	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00382696	Isoform 2 of Filamin-B	S 1316	100% (80.42)	1.0000	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00382696	Isoform 2 of Filamin-B	S 1505	100% (82.32)	1.0000	4	6	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00382733	Transcription repressor	S 525	100% (42.41)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00382737	SON DNA-binding protein isoform G	S 1657	100% (92.15)	1.0000	21	17	6	2	0	0	0	0	4	3	0	0	0	0	5	1	0	0	0	0	5	2	0	0	0	0	3	2	0	0	0	0	4	1	0	0	0	0
IPI00382737	SON DNA-binding protein isoform G	S 2089	100% (61.62)	1.0000	4	9	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0
IPI00383396	Isoform 1 of Autophagy-related protein 9A	S 828	100% (1,000.00)	1.0000	5	5	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00384176	Isoform 1 of Protein polybromo-1	S 636	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00384202	Isoform 1 of Probable JmjC domain-containing histone demethylation protein 2C	S 617	100% (57.03)	1.0000	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00384529	Hypothetical protein DKFZp547K059	S 357	100% (1,000.00)	1.0000	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00384541	Novel protein	S 374	100% (51.81)	1.0000	6	7	0	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	1	1	1	0	0	0
IPI00384556	Ribosomal RNA upstream binding transcription factor (Fragment)	S 326	100% (1,000.00)	1.0000	3	1	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00384867	Isoform 2 of Adenosine 3'-phospho 5'-phosphosulfate transporter 1	S 389	100% (1,000.00)	1.0000	6	6	2	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0
IPI00384909	CDNA FLJ12811 fis, clone NT2RP2002475	S 327	100% (58.55)	1.0000	2	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00385022	DEAH (Asp-Glu-Ala-His) box polypeptide 34 isoform 1	S 749	100% (1,000.00)	1.0000	4	1	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00385022	DEAH (Asp-Glu-Ala-His) box polypeptide 34 isoform 1	S 750	100% (1,000.00)	1.0000	4	1	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00385325	Epidermal growth factor receptor pathway substrate 15	S 662	100% (76.29)	1.0000	4	9	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0
IPI00385325	Epidermal growth factor receptor pathway substrate 15	S 680	100% (1,000.00)	1.0000	3	4	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0
IPI00385729	OTTHUMP00000022614	S 596	100% (1,000.00)	1.0000	10	12	2	1	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0	0	1	2	0	0	0	0	1	3	0	0	0	0	2	3	0	0	0	0
IPI00385966	forkhead box K2 isoform 1	S 398	100% (1,000.00)	1.0000	9	12	0	1	0	1	0	0	1	1	1	1	0	0	1	1	0	0	1	0	1	1	1	1	0	0	1	1	1	1	0	0	1	1	1	1	0	0
IPI00386110	Hypothetical protein FLJ23464	S 326	100% (1,000.00)	1.0000	2	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00386211	family with sequence similarity 44, member A	S 2986	100% (151.75)	1.0000	13	6	3	0	1	0	0	0	4	1	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	1	1	1	0	0	0
IPI00386700	ladinin 1	S 177	100% (1,000.00)	1.0000	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00386718	Isoform Short of Probable global transcription activator SNF2L2	S 325	100% (1,000.00)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00386718	Isoform Short of Probable global transcription activator SNF2L2	S 1373	100% (1,000.00)	1.0000	3	5	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00386718	Isoform Short of Probable global transcription activator SNF2L2	S 1550	100% (43.86)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00387156	Isoform 2 of Sodium bicarbonate cotransporter 3	S 242	100% (1,000.00)	1.0000	5	6	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	1	0	0
IPI00394698	55 kDa protein	S 167	100% (1,000.00)	1.0000	9	16	0	0	0	1	2	0	1	0	0	1	2	0	0	0	0	1	1	0	0	0	1	4	1	0	0	0	2	4	1	0	0	0	0	3	0	0
IPI00394698	55 kDa protein	S 184	100% (122.17)	1.0000	15	17	1	1	1	1	1	0	1	1	0	1	1	0	1	1	1	2	1	0	1	1	1	1	1	0	1	1	1	3	1	0	1	1	1	1	1	0
IPI00394732	Isoform 2 of Transformation/transcription domain-associated protein	S 207	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00394829	hypothetical protein LOC286077	S 523	100% (1,000.00)	1.0000	16	18	2	1	1	0	1	0	2	2	1	0	1	0	2	2	1	0	0	0	2	1	1	1	1	0	1	2	1	1	1	1	1	1	1	1	1	0
IPI00394829	hypothetical protein LOC286077	S 647	100% (1,000.00)	1.0000	4	4	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	1	0	0	0	0	0
IPI00394829	hypothetical protein LOC286077	S 914	100% (1,000.00)	1.0000	15	13	1	2	1	0	0	0	2	1	1	1	0	0	4	1	0	1	0	0	1	2	2	1	0	0	1	1	1	0	0	0	2	1	1	0	0	0
IPI00394829	hypothetical protein LOC286077	S 998	100% (1,000.00)	1.0000	6	8	1	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	0	0	1	0	0	0	1	1	0	1	0	0	1	1	0	2	0	0
IPI00394829	hypothetical protein LOC286077	S 1003	100% (110.50)	1.0000	20	24	0	1	2	3	2	0	0	2	2	2	1	0	1	1	2	1	0	0	1	1	1	3	0	0	1	1	2	3	1	1	0	2	2	3	1	1
IPI00395347	c-Mpl binding protein isoform a	S 722	100% (46.62)	1.0000	3	5	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	1
IPI00395688	Isoform 3 of StAR-related lipid transfer protein 13	S 271	100% (1,000.00)	1.0000	3	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00395737	Isoform 2 of Leucine zipper protein 1	S 659	100% (85.91)	1.0000	22	19	2	2	1	1	0	2	2	1	1	1	0	2	2	2	2	0	0	0	2	2	1	1	0	0	2	2	1	1	0	0	2	2	1	2	0	0
IPI00395837	c-Mpl binding protein isoform c	S 651	100% (46.62)	1.0000	3	5	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	1
IPI00395887	Thioredoxin domain-containing protein 1 precursor	S 247	100% (58.96)	1.0000	122	57	2	2	2	3	31	3	2	2	3	4	29	3	2	1	2	3	24	4	2	0	1	6	7	3	0	1	1	6	6	4	2	0	0	6	9	3
IPI00396071	Isoform 1 of Retinoid X receptor-interacting protein 110	S 44	100% (1,000.00)	1.0000	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00396071	Isoform 1 of Retinoid X receptor-interacting protein 110	S 46	100% (1,000.00)	1.0000	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00396071	Isoform 1 of Retinoid X receptor-interacting protein 110	S 677	100% (1,000.00)	1.0000	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00396263	blocked early in transport 1 homolog (S. cerevisiae) like	S 9	100% (1,000.00)	1.0000	9	7	0	0	0	1	2	0	0	0	1	2	0	0	0	0	0	3	0	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	0	1	1
IPI00396411	Cleft lip and palate transmembrane protein 1	S 93	100% (1,000.00)	1.0000	7	7	0	0	0	1	0	1	0	0	1	1	0	0	1	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	2
IPI00396547	Mid-1-related chloride channel 1	S 388	100% (40.81)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00396557	ZYX protein	S 291	100% (79.00)	1.0000	15	18	0	0	1	2	0	0	0	2	2	4	0	0	0	0	1	3	0	0	1	2	1	3	0	0	0	2	1	2	0	0	0	2	2	2	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00396557	ZYX protein	S 354	100% (62.18)	1.0000	9	17	0	1	2	0	0	0	0	1	2	0	0	0	1	1	1	0	0	0	1	1	1	1	1	0	1	2	1	2	0	1	1	2	1	1	0	0
IPI00396658	CDNA FLJ32603 fis, clone STOMA1000117	S 21	100% (72.00)	1.0000	4	3	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00396937	Isoform 8 of Periphilin-1	S 133	100% (40.44)	1.0000	2	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00397361	AXL receptor tyrosine kinase isoform 2	S 603	100% (1,000.00)	1.0000	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	1	0	0	1	0	0	1	0	0
IPI00397376	nuclear protein UKp68 isoform 1	S 409	100% (88.82)	1.0000	4	8	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	1	1	0	0	0	1	0	1	0	0
IPI00397376	nuclear protein UKp68 isoform 1	S 515	100% (1,000.00)	1.0000	8	10	1	1	0	0	1	0	1	1	0	0	0	0	1	0	0	1	1	0	1	1	0	1	0	0	1	1	1	1	0	0	1	0	1	1	0	0
IPI00397383	Isoform 4 of Kinesin-like protein KIF1B	S 1487	100% (1,000.00)	1.0000	8	6	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00397509	Isoform 4 of Pre-mRNA-processing factor 40 homolog A	S 752	100% (1,000.00)	1.0000	8	10	2	2	0	0	0	0	1	1	0	0	0	0	0	1	0	1	0	0	2	3	1	0	0	0	1	2	0	0	0	0	1	0	0	0	0	0
IPI00397509	Isoform 4 of Pre-mRNA-processing factor 40 homolog A	S 754	100% (1,000.00)	1.0000	13	15	2	4	0	0	0	0	2	2	0	0	0	0	1	1	0	1	0	0	2	4	1	0	0	0	2	4	0	0	0	0	1	1	0	0	0	0
IPI00397509	Isoform 4 of Pre-mRNA-processing factor 40 homolog A	S 757	100% (1,000.00)	1.0000	20	24	3	7	0	0	0	0	3	2	0	0	0	0	2	2	0	1	0	0	2	5	1	0	0	0	3	7	0	0	0	0	2	4	0	0	0	0
IPI00397558	Isoform 5 of Periphilin-1	S 85	100% (40.44)	1.0000	2	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00397571	Isoform 3 of NSFL1 cofactor p47	S 116	100% (1,000.00)	1.0000	28	26	2	2	1	2	2	0	2	2	2	2	2	0	2	1	2	2	2	0	1	1	2	2	2	0	2	2	2	2	1	0	2	1	2	3	1	0
IPI00398002	plectin 1 isoform 1	S 1325	100% (1,000.00)	1.0000	3	5	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00398002	plectin 1 isoform 1	S 1622	100% (1,000.00)	1.0000	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00398505	Ubiquitin carboxyl-terminal hydrolase 24	S 2047	100% (43.84)	1.0000	3	7	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00398749	Isoform 1 of Pumilio homolog 2	S 136	100% (1,000.00)	1.0000	4	3	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00398779	plectin 1 isoform 11	S 1298	100% (1,000.00)	1.0000	3	5	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00398779	plectin 1 isoform 11	S 1595	100% (1,000.00)	1.0000	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00398786	Isoform 2 of Protein C14orf133	S 461	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00398799	Isoform 4 of Periphilin-1	S 85	100% (40.44)	1.0000	2	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00398959	SP110 nuclear body protein isoform a	S 256	100% (174.21)	1.0000	4	5	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0
IPI00398959	SP110 nuclear body protein isoform a	S 380	100% (50.40)	1.0000	7	6	0	0	3	0	0	0	0	0	3	0	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0
IPI00399254	OTU domain containing 4 protein isoform 1	S 957	100% (79.03)	1.0000	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
IPI00399254	OTU domain containing 4 protein isoform 1	S 958	100% (84.11)	1.0000	1	5	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0
IPI00399306	papillary renal cell carcinoma translocation-associated gene product isoform 2	S 157	100% (48.49)	1.0000	11	11	1	0	2	1	0	0	1	0	1	1	0	0	1	0	1	2	0	0	0	0	3	0	0	0	0	1	2	1	0	0	1	1	2	0	0	0
IPI00399306	papillary renal cell carcinoma translocation-associated gene product isoform 2	S 159	100% (49.74)	1.0000	10	7	1	0	1	1	0	0	1	0	2	1	0	0	1	0	1	1	0	0	0	0	1	0	0	0	0	1	1	1	0	0	1	1	1	0	0	0
IPI00401163	Isoform 5A of Cutaneous T-cell lymphoma-associated antigen 5	S 507	100% (44.44)	1.0000	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00401282	PREDICTED: hypothetical protein LOC23307	S 1074	100% (87.62)	1.0000	6	7	2	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00401958	SON DNA-binding protein isoform C	S 1697	100% (92.15)	1.0000	21	17	6	2	0	0	0	0	4	3	0	0	0	0	5	1	0	0	0	0	5	2	0	0	0	0	3	2	0	0	0	0	4	1	0	0	0	0
IPI00401958	SON DNA-binding protein isoform C	S 2129	100% (61.62)	1.0000	4	9	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0
IPI00402229	CTAGE family, member 5 isoform 2	S 524	100% (44.44)	1.0000	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00409640	LISCH protein isoform 2	S 464	100% (38.39)	1.0000	4	4	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0
IPI00409640	LISCH protein isoform 2	S 493	100% (148.52)	1.0000	17	15	0	2	3	2	0	0	0	2	2	1	0	0	0	1	2	2	0	0	0	1	2	2	0	0	0	1	2	2	0	0	0	1	2	2	0	0
IPI00409641	LISCH protein isoform 3	S 396	100% (38.39)	1.0000	4	4	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0
IPI00409641	LISCH protein isoform 3	S 425	100% (148.52)	1.0000	17	15	0	2	3	2	0	0	0	2	2	1	0	0	0	1	2	2	0	0	0	1	2	2	0	0	0	1	2	2	0	0	0	1	2	2	0	0
IPI00410039	Isoform 1 of Periphilin-1	S 133	100% (40.44)	1.0000	2	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00410040	Isoform 2 of Periphilin-1	S 140	100% (40.44)	1.0000	2	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00410067	Isoform 1 of Zinc finger CCCH type antiviral protein 1	S 284	100% (71.95)	1.0000	8	7	0	1	1	1	0	0	1	1	1	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	1	1	1	1	0	0
IPI00410071	Isoform 5 of Zinc finger CCCH type antiviral protein 1	S 284	100% (71.95)	1.0000	8	7	0	1	1	1	0	0	1	1	1	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	1	1	1	1	0	0
IPI00410079	Cerebral protein-10	S 212	100% (74.13)	1.0000	16	21	1	0	2	2	0	2	1	1	2	1	0	1	1	0	2	0	0	0	0	1	2	2	0	2	0	0	2	2	0	2	1	1	2	2	0	2
IPI00410303	development and differentiation enhancing factor 1	S 717	100% (1,000.00)	1.0000	16	15	1	4	0	0	0	0	0	6	0	0	0	0	1	4	0	0	0	0	0	5	0	0	0	0	2	3	0	0	0	0	1	4	0	0	0	0
IPI00410303	development and differentiation enhancing factor 1	S 726	100% (1,000.00)	1.0000	5	7	1	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0
IPI00410330	Isoform 1 of Transcriptional repressor p66 alpha	S 100	100% (74.64)	1.0000	16	16	1	0	3	1	0	0	2	2	3	0	0	0	1	0	2	1	0	0	0	3	3	0	0	0	0	1	3	0	0	0	1	2	3	0	0	0
IPI00410360	Isoform 2 of Protein C14orf120	S 142	100% (131.75)	1.0000	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00410360	Isoform 2 of Protein C14orf120	S 143	100% (133.10)	1.0000	4	5	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	2	0	0
IPI00410485	Serine/threonine-protein kinase TAO3	S 324	100% (78.10)	1.0000	6	5	0	3	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
IPI00410618	KIAA1143	S 50	100% (1,000.00)	1.0000	6	7	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	2	0
IPI00411594	Isoform 2 of General transcription factor 3C polypeptide 3	S 43	100% (137.50)	1.0000	12	11	2	2	0	0	0	0	2	2	0	0	0	0	1	2	0	0	1	0	2	2	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0
IPI00411635	KIAA0802 protein	S 411	100% (1,000.00)	1.0000	10	18	2	1	0	0	0	0	3	1	0	0	0	0	3	0	0	0	0	0	5	1	0	0	0	0	4	2	0	0	0	0	5	1	0	0	0	0
IPI00411635	KIAA0802 protein	S 413	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00411635	KIAA0802 protein	S 1056	100% (1,000.00)	1.0000	8	10	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	1	0	0	0	0
IPI00411636	Isoform 1 of Beta-catenin-like protein 1	S 545	100% (52.76)	1.0000	1	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00411984	Serine/threonine-protein kinase 3	S 316	100% (84.11)	1.0000	40	34	1	1	6	5	0	0	1	1	8	5	0	0	1	1	5	5	0	0	1	1	6	3	0	1	0	1	7	3	0	1	1	1	4	4	0	0
IPI00412364	BTB/POZ domain-containing protein 12	S 361	100% (1,000.00)	1.0000	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00412415	Isoform 1 of Bromodomain adjacent to zinc finger domain protein 1A	S 1353	100% (64.21)	1.0000	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00412676	CDNA FLJ43339 fis, clone NT2RI3007291	S 193	100% (1,000.00)	1.0000	3	4	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0
IPI00412782	Guanine nucleotide exchange factor GEF-H1	S 931	100% (1,000.00)	1.0000	3	2	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00413140	Dynamin-1	S 569	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413144	Hypothetical protein DKFZp686B18208	S 599	100% (1,000.00)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00413362	signal-induced proliferation-associated 1 like 1	S 1270	100% (1,000.00)	1.0000	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413370	RUNX1 protein (Fragment)	S 239	100% (60.33)	1.0000	10	3	0	0	1	2	0	0	0	0	2	2	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00413483	DEAH (Asp-Glu-Ala-His) box polypeptide 34 isoform 2	S 749	100% (1,000.00)	1.0000	4	1	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00413483	DEAH (Asp-Glu-Ala-His) box polypeptide 34 isoform 2	S 750	100% (1,000.00)	1.0000	4	1	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00413611	DNA topoisomerase 1	S 432	100% (56.47)	1.0000	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413611	DNA topoisomerase 1	S 433	100% (52.59)	1.0000	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413671	Isoform 2 of Bcl-2-associated transcription factor 1	S 175	100% (1,000.00)	1.0000	46	42	4	4	3	1	0	0	4	4	3	2	0	0	3	4	12	2	0	0	2	5	3	3	0	0	4	3	3	2	1	1	2	4	4	3	0	2

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00413671	Isoform 2 of Bcl-2-associated transcription factor 1	S 395	100% (79.02)	1.0000	55	51	6	7	3	0	1	0	7	8	4	0	1	0	5	7	3	0	3	0	5	6	4	0	1	0	6	6	3	1	1	1	6	6	3	0	1	1
IPI00413672	Isoform 3 of Bcl-2-associated transcription factor 1	S 175	100% (1,000.00)	1.0000	46	42	4	4	3	1	0	0	4	4	3	2	0	0	3	4	12	2	0	0	2	5	3	3	0	0	4	3	3	2	1	1	2	4	4	3	0	2
IPI00413672	Isoform 3 of Bcl-2-associated transcription factor 1	S 395	100% (79.02)	1.0000	55	51	6	7	3	0	1	0	7	8	4	0	1	0	5	7	3	0	3	0	5	6	4	0	1	0	6	6	3	1	1	1	6	6	3	0	1	1
IPI00413728	Isoform 1 of Spectrin alpha chain, brain	S 1217	100% (1,000.00)	1.0000	4	6	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00413734	Isoform 6 of Transcriptional regulator ATRX	S 549	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413734	Isoform 6 of Transcriptional regulator ATRX	S 781	100% (47.64)	1.0000	6	6	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0
IPI00413734	Isoform 6 of Transcriptional regulator ATRX	S 782	100% (42.99)	1.0000	6	6	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0
IPI00413895	Golgi autoantigen, golgin subfamily A member 2	S 37	100% (41.87)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00414101	Isoform 2 of DNA topoisomerase 2-alpha	S 1132	100% (1,000.00)	1.0000	15	20	3	2	0	0	0	0	4	1	0	0	0	0	4	1	0	0	0	0	6	1	1	0	0	0	4	0	1	0	0	0	6	1	0	0	0	0
IPI00414101	Isoform 2 of DNA topoisomerase 2-alpha	S 1239	100% (103.92)	1.0000	6	13	2	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	4	0	0	0	0	0	3	1	0	0	0	0	4	1	0	0	0	0
IPI00414101	Isoform 2 of DNA topoisomerase 2-alpha	S 1273	100% (38.72)	1.0000	17	31	4	0	0	0	0	0	5	1	0	0	0	0	6	1	0	0	0	0	8	2	1	0	0	0	9	1	0	0	0	0	9	1	0	0	0	0
IPI00414101	Isoform 2 of DNA topoisomerase 2-alpha	S 1377	100% (71.07)	1.0000	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00414101	Isoform 2 of DNA topoisomerase 2-alpha	S 1380	100% (78.62)	1.0000	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00414101	Isoform 2 of DNA topoisomerase 2-alpha	S 1401	100% (1,000.00)	1.0000	5	6	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00414101	Isoform 2 of DNA topoisomerase 2-alpha	S 1404	100% (1,000.00)	1.0000	12	15	4	1	0	0	0	0	4	0	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0	0	5	1	0	0	0	0	4	1	0	0	0	0
IPI00414101	Isoform 2 of DNA topoisomerase 2-alpha	S 1531	100% (65.16)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00414303	ATP-binding cassette, sub-family A, member 2 isoform b	S 1358	100% (48.54)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00414303	ATP-binding cassette, sub-family A, member 2 isoform b	S 1362	100% (56.18)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00414481	Isoform 1 of General transcription factor 3C polypeptide 1	S 1612	100% (1,000.00)	1.0000	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00414482	Isoform 2 of General transcription factor 3C polypeptide 1	S 1632	100% (1,000.00)	1.0000	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00414497	Chromosome 13 open reading frame 8	S 87	100% (1,000.00)	1.0000	2	3	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0
IPI00414497	Chromosome 13 open reading frame 8	S 204	100% (107.67)	1.0000	15	20	2	3	1	0	0	0	1	3	1	0	0	0	1	2	0	1	0	0	1	3	1	1	0	0	2	3	1	1	0	0	2	3	1	1	0	0
IPI00414497	Chromosome 13 open reading frame 8	S 427	100% (1,000.00)	1.0000	5	10	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	1	3	0	0	0	0
IPI00414497	Chromosome 13 open reading frame 8	S 432	100% (1,000.00)	1.0000	2	4	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00414497	Chromosome 13 open reading frame 8	S 436	100% (1,000.00)	1.0000	2	6	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0
IPI00414497	Chromosome 13 open reading frame 8	S 452	100% (92.08)	1.0000	15	14	2	2	0	0	0	0	3	3	0	0	0	0	2	3	0	0	0	0	2	3	1	0	0	0	1	3	0	0	0	0	2	2	0	0	0	0
IPI00414497	Chromosome 13 open reading frame 8	S 476	100% (1,000.00)	1.0000	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00414554	Actin related protein 2/3 complex, subunit 5-like	S 64	100% (44.28)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0
IPI00414657	CTF18, chromosome transmission fidelity factor 18 homolog	S 899	100% (76.27)	1.0000	5	6	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0
IPI00414676	Heat shock protein HSP 90-beta	S 225	100% (1,000.00)	1.0000	68	72	4	9	5	1	1	0	4	11	7	1	1	0	5	12	5	1	1	0	3	7	7	2	1	0	4	8	7	2	3	2	5	9	7	1	1	3
IPI00414676	Heat shock protein HSP 90-beta	S 254	100% (1,000.00)	1.0000	115	114	6	9	9	3	2	1	7	13	11	3	3	2	6	13	20	4	2	1	7	13	8	4	3	0	6	13	9	3	4	2	6	14	11	4	4	3
IPI00414676	Heat shock protein HSP 90-beta	S 260	100% (1,000.00)	1.0000	9	12	0	1	1	0	0	0	1	2	1	0	0	0	0	2	1	0	0	0	1	1	1	0	0	0	1	3	1	0	0	0	0	2	2	0	0	0
IPI00414676	Heat shock protein HSP 90-beta	S 614	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00414723	PREDICTED: similar to eukaryotic translation elongation factor 1 beta 2	S 106	100% (72.73)	1.0000	96	123	1	1	1	3	24	0	1	2	1	4	18	0	0	1	1	3	31	4	0	0	2	17	29	1	0	0	0	15	22	1	1	0	1	18	16	0
IPI00414963	Isoform 2 of Polyadenylate-binding protein 2	S 149	100% (91.91)	1.0000	6	7	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	1	1	0	0
IPI00418169	annexin A2 isoform 1	S 202	100% (49.79)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00418316	RACK7 isoform e	S 688	100% (86.75)	1.0000	9	9	1	2	0	0	0	0	0	2	0	0	0	0	1	2	0	1	0	0	2	1	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0
IPI00418340	hypothetical protein LOC6936	S 174	100% (1,000.00)	1.0000	3	4	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
IPI00418340	hypothetical protein LOC6936	S 180	100% (1,000.00)	1.0000	3	4	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
IPI00418458	Isoform 1 of Pinin	S 100	100% (1,000.00)	1.0000	29	28	1	7	1	1	1	0	2	5	3	1	0	0	2	4	0	1	0	0	2	5	2	1	0	0	1	5	2	1	1	1	1	4	2	0	0	0
IPI00418458	Isoform 1 of Pinin	S 347	100% (1,000.00)	1.0000	16	19	1	3	0	0	0	0	1	4	0	0	0	0	1	5	1	0	0	0	2	4	2	0	0	0	1	3	2	0	0	0	1	2	2	0	0	0
IPI00418458	Isoform 1 of Pinin	S 381	100% (1,000.00)	1.0000	26	28	3	5	2	0	0	0	3	4	2	0	0	0	3	3	1	0	0	0	3	3	3	0	0	0	3	3	3	0	0	0	3	4	3	0	0	0
IPI00418458	Isoform 1 of Pinin	S 441	100% (41.20)	1.0000	4	4	0	0	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	1
IPI00418458	Isoform 1 of Pinin	S 443	100% (46.51)	1.0000	26	24	1	4	2	0	0	0	2	3	3	0	0	0	2	6	3	0	0	0	1	4	2	0	0	0	3	2	2	1	0	0	3	4	1	0	0	1
IPI00418465	CD44 antigen isoform 2 precursor	S 663	100% (1,000.00)	1.0000	36	34	5	3	0	0	2	0	8	1	0	0	4	0	3	3	1	2	4	0	8	3	1	1	2	0	5	3	0	0	1	0	7	2	0	0	1	0
IPI00418489	Isoform 4 of MKL/myocardin-like protein 2	S 77	100% (1,000.00)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
IPI00418689	c-Mpl binding protein isoform b	S 728	100% (46.62)	1.0000	3	5	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	1
IPI00419100	Isoform 1 of FYVE, RhoGEF and PH domain-containing protein 6	S 721	100% (84.11)	1.0000	5	6	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0
IPI00419219	CD44 antigen isoform 3 precursor	S 457	100% (1,000.00)	1.0000	36	34	5	3	0	0	2	0	8	1	0	0	4	0	3	3	1	2	4	0	8	3	1	1	2	0	5	3	0	0	1	0	7	2	0	0	1	0
IPI00419226	Isoform 1 of StAR-related lipid transfer protein 13	S 389	100% (1,000.00)	1.0000	3	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00419249	proteasome alpha 3 subunit isoform 1	S 250	100% (51.81)	1.0000	37	40	2	1	2	2	6	1	1	1	0	2	2	7	0	1	1	2	6	0	0	1	1	4	4	2	2	0	2	4	6	0	2	2	4	6	0	
IPI00419322	hepatoma-derived growth factor-related protein 2 isoform 1	S 240	100% (1,000.00)	1.0000	6	2	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00419322	hepatoma-derived growth factor-related protein 2 isoform 1	S 366	100% (1,000.00)	1.0000	8	4	0	3	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
IPI00419322	hepatoma-derived growth factor-related protein 2 isoform 1	S 369	100% (1,000.00)	1.0000	14	6	0	4	0	0	0	0	0	4	1	0	0	0	0	5	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0
IPI00419322	hepatoma-derived growth factor-related protein 2 isoform 1	S 370	100% (1,000.00)	1.0000	13	7	0	4	0	0	0	0	0	4	1	0	0	0	0	4	0	0	0	0	0	3	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0
IPI00419322	hepatoma-derived growth factor-related protein 2 isoform 1	S 454	100% (63.65)	1.0000	5	3	0	1	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00419322	hepatoma-derived growth factor-related protein 2 isoform 1	S 490	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00419322	hepatoma-derived growth factor-related protein 2 isoform 1	S 625	100% (52.60)	1.0000	9	12	1	2	1	0	0	0	1	3	0	0	0	0	0	1	0	0	0	0	1	3	2	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0
IPI00419322	hepatoma-derived growth factor-related protein 2 isoform 1	S 671	100% (67.76)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00419531	Cleavage and polyadenylation specificity factor, 100 kDa subunit	S 419	100% (93.11)	1.0000	5	4	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
IPI00419531	Cleavage and polyadenylation specificity factor, 100 kDa subunit	S 420	100% (98.84)	1.0000	5	4	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
IPI00419531	Cleavage and polyadenylation specificity factor, 100 kDa subunit	S 423	100% (89.40)	1.0000	5	4	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
IPI00419693	activating transcription factor 7 interacting protein	S 673	100% (1,000.00)	1.0000	7	10	1	0	0	0	0	0	1	1	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	1	0	0	0	0	1	2	0	0	0	0
IPI00419844	U4/U6.U5 tri-snRNP-associated protein 2	S 82	100% (1,000.00)	1.0000	13	12	1	1	3	0	0	0	1	1	1	0	0	0	1	1	3	0	0	0	1	0	2	0	0	0	1	1	2	0	0	0	2	1	2	0	0	0
IPI00419880	40S ribosomal protein S3a	S 262	100% (76.91)	1.0000	4	4	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0
IPI00419894	Isoform 3 of Homeobox protein cut-like 1	S 828	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00420014	U5 small nuclear ribonucleoprotein 200 kDa helicase	S 225	100% (1,000.00)	1.0000	19	26	3	1	0	1	1	0	4	1	0	1	1	0	4	0	0	0	1	1	5	1	0	1	1	0	4	0	1	1	1	1	5	0	0	1	2	2
IPI00424603	Centrosome spindle pole associated protein	S 130	100% (100.65)	1.0000	2	7	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	1	1	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0
IPI00424603	Centrosome spindle pole associated protein	S 586	100% (1,000.00)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00425560	Isoform 1 of LAP4 protein	S 37	100% (1,000.00)	1.0000	2	4	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00425560	Isoform 1 of LAP4 protein	S 668	100% (1,000.00)	1.0000	5	1	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00425560	Isoform 1 of LAP4 protein	S 853	100% (1,000.00)	1.0000	7	7	1	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0
IPI00425560	Isoform 1 of LAP4 protein	S 1232	100% (1,000.00)	1.0000	5	5	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	0
IPI00425560	Isoform 1 of LAP4 protein	S 1378	100% (1,000.00)	1.0000	3	4	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00425560	Isoform 1 of LAP4 protein	S 1445	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00425560	Isoform 1 of LAP4 protein	S 1448	100% (1,000.00)	1.0000	7	10	1	1	0	1	0	0	1	0	0	0	0	0	2	0	0	1	0	0	1	1	1	1	0	0	1	1	0	1	0	0	1	1	0	1	0	0
IPI00425560	Isoform 1 of LAP4 protein	S 1475	100% (1,000.00)	1.0000	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00425560	Isoform 1 of LAP4 protein	S 1486	100% (1,000.00)	1.0000	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00425560	Isoform 1 of LAP4 protein	S 1566	100% (1,000.00)	1.0000	7	6	1	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0
IPI00425566	Isoform 4 of LAP4 protein	S 37	100% (1,000.00)	1.0000	2	4	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00425566	Isoform 4 of LAP4 protein	S 668	100% (1,000.00)	1.0000	5	1	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00425566	Isoform 4 of LAP4 protein	S 853	100% (1,000.00)	1.0000	7	7	1	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0
IPI00425566	Isoform 4 of LAP4 protein	S 1232	100% (1,000.00)	1.0000	5	5	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	0
IPI00425566	Isoform 4 of LAP4 protein	S 1378	100% (1,000.00)	1.0000	3	4	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00425566	Isoform 4 of LAP4 protein	S 1469	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00425566	Isoform 4 of LAP4 protein	S 1472	100% (1,000.00)	1.0000	7	10	1	1	0	1	0	0	1	0	0	0	0	0	2	0	0	1	0	0	1	1	1	1	0	0	1	1	0	1	0	0	1	1	0	1	0	0
IPI00425566	Isoform 4 of LAP4 protein	S 1499	100% (1,000.00)	1.0000	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00425566	Isoform 4 of LAP4 protein	S 1510	100% (1,000.00)	1.0000	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00425566	Isoform 4 of LAP4 protein	S 1590	100% (1,000.00)	1.0000	7	6	1	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0
IPI00428864	CTAGE family, member 5 isoform 5	S 461	100% (44.44)	1.0000	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00429547	Isoform 4 of Aftiphilin	S 674	100% (51.13)	1.0000	4	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00431127	Isoform 1 of Cyclin-K	S 340	100% (1,000.00)	1.0000	13	6	1	1	1	1	0	0	1	1	2	1	0	0	0	1	2	1	0	0	1	1	2	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00431262	Isoform 1 of Protein KIAA0195	S 221	100% (1,000.00)	1.0000	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00431262	Isoform 1 of Protein KIAA0195	S 225	100% (1,000.00)	1.0000	3	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00431263	Isoform 2 of Protein KIAA0195	S 221	100% (1,000.00)	1.0000	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00431263	Isoform 2 of Protein KIAA0195	S 225	100% (1,000.00)	1.0000	3	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00432363	Microtubule-actin crosslinking factor 1, isoform 4	S 2956	100% (1,000.00)	1.0000	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00432436	PHACTR4 protein	S 448	100% (49.79)	1.0000	7	2	0	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00433194	EHBP1 protein	S 987	100% (1,000.00)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00434952	Isoform 5 of Aftiphilin	S 674	100% (51.13)	1.0000	4	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00435422	Isoform 2 of Signal-induced proliferation-associated 1-like protein 1	S 1249	100% (1,000.00)	1.0000	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00436632	Isoform 1 of Nipped-B-like protein	S 318	100% (1,000.00)	1.0000	6	8	3	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0
IPI00436632	Isoform 1 of Nipped-B-like protein	S 693	100% (1,000.00)	1.0000	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00436632	Isoform 1 of Nipped-B-like protein	S 2658	100% (74.28)	1.0000	6	7	1	0	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0
IPI00438229	Isoform 1 of Transcription intermediary factor 1-beta	S 473	100% (69.64)	1.0000	15	18	2	2	0	0	0	0	1	3	2	0	0	0	1	3	1	0	0	0	2	3	0	0	0	0	1	3	2	0	0	0	1	4	2	0	0	0
IPI00438286	Isoform 1 of LAP2 protein	S 598	100% (1,000.00)	1.0000	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00438286	Isoform 1 of LAP2 protein	S 602	100% (1,000.00)	1.0000	7	10	1	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0
IPI00438286	Isoform 1 of LAP2 protein	S 603	100% (1,000.00)	1.0000	7	10	1	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0
IPI00438287	Isoform 2 of LAP2 protein	S 598	100% (1,000.00)	1.0000	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00438287	Isoform 2 of LAP2 protein	S 602	100% (1,000.00)	1.0000	7	10	1	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0
IPI00438287	Isoform 2 of LAP2 protein	S 603	100% (1,000.00)	1.0000	7	10	1	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0
IPI00438288	Isoform 3 of LAP2 protein	S 598	100% (1,000.00)	1.0000	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00438288	Isoform 3 of LAP2 protein	S 602	100% (1,000.00)	1.0000	7	10	1	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0
IPI00438288	Isoform 3 of LAP2 protein	S 603	100% (1,000.00)	1.0000	7	10	1	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0
IPI00438290	Isoform 5 of LAP2 protein	S 598	100% (1,000.00)	1.0000	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00438290	Isoform 5 of LAP2 protein	S 602	100% (1,000.00)	1.0000	7	10	1	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0
IPI00438290	Isoform 5 of LAP2 protein	S 603	100% (1,000.00)	1.0000	7	10	1	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0
IPI00438292	Isoform 7 of LAP2 protein	S 598	100% (1,000.00)	1.0000	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00438292	Isoform 7 of LAP2 protein	S 602	100% (1,000.00)	1.0000	7	10	1	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0
IPI00438292	Isoform 7 of LAP2 protein	S 603	100% (1,000.00)	1.0000	7	10	1	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0
IPI00442073	Cysteine and glycine-rich protein 1	S 191	100% (1,000.00)	1.0000	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00442274	nuclear transcription factor, X-box binding-like 1	S 835	100% (1,000.00)	1.0000	2	3	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00444329	CDNA FLJ45695 fis, clone FEBRA2013570, highly similar to 2- oxoisovalerate dehydrogenase alpha subur	S 381	100% (59.72)	1.0000	9	7	0	0	0	3	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0	1	0	0	0
IPI00444371	WD repeat domain 44 protein	S 50	100% (1,000.00)	1.0000	4	5	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00444526	Isoform 2 of Transcriptional repressor p66 alpha	S 100	100% (74.64)	1.0000	16	16	1	0	3	1	0	0	2	2	3	0	0	0	1	0	2	1	0	0	0	3	3	0	0	0	0	1	3	0	0	0	1	2	3	0	0	0
IPI00444788	CDNA FLJ44925 fis, clone BRAMY3014613, highly similar to Homo sapiens SH3-domain binding protein	S 486	100% (52.86)	1.0000	6	4	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00444793	Centrosome and spindle pole associated protein 1	S 424	100% (100.65)	1.0000	2	7	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	1	1	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0
IPI00444793	Centrosome and spindle pole associated protein 1	S 931	100% (1,000.00)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00445029	CDNA FLJ44731 fis, clone BRACE3025719, highly similar to Homo sapiens ring finger protein 22	S 7	100% (1,000.00)	1.0000	5	5	0	1	1	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00445029	CDNA FLJ44731 fis, clone BRACE3025719, highly similar to Homo sapiens ring finger protein 22	S 276	100% (62.07)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00445123	CDNA FLJ44592 fis, clone BLADE2002310, highly similar to Homo sapiens SH3-domain binding protein 1	S 464	100% (52.86)	1.0000	6	4	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00445401	Isoform 2 of HECT, UBA and WWE domain-containing protein 1	S 1084	100% (81.69)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00449906	Isoform 1 of Rho guanine nucleotide exchange factor 7	S 340	100% (38.03)	1.0000	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00449906	Isoform 1 of Rho guanine nucleotide exchange factor 7	S 560	100% (41.87)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00449923	Isoform 1 of Retinoic acid-induced protein 1	S 1374	100% (89.30)	1.0000	5	6	1	0	1	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0
IPI00449924	Isoform 2 of Retinoic acid-induced protein 1	S 1327	100% (89.30)	1.0000	5	6	1	0	1	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0
IPI00451417	Isoform 2 of Connector enhancer of kinase suppressor of ras 1	S 293	100% (1,000.00)	1.0000	2	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00451483	PREDICTED: similar to ribosomal protein S27	S 11	100% (1,000.00)	1.0000	11	10	0	0	0	0	0	3	2	0	0	0	1	2	0	0	0	0	0	3	2	0	0	0	0	3	1	0	0	0	0	2	0	0	0	0	0	2
IPI00454969	PHD finger protein 14	S 835	100% (1,000.00)	1.0000	1	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00455199	Zuotin-related factor 1	S 47	100% (1,000.00)	1.0000	9	11	0	3	2	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	2	2	0	0	0	0	2	1	0	0	0	0	2	2	0	0	0
IPI00455199	Zuotin-related factor 1	S 49	100% (1,000.00)	1.0000	4	5	0	2	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0
IPI00455315	Annexin A2	S 183	100% (49.79)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00455359	Isoform 2 of Ataxin-2	S 783	100% (52.93)	1.0000	7	8	1	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	2	2	0	0	0	0	0
IPI00455363	Isoform 4 of Ataxin-2	S 783	100% (52.93)	1.0000	7	8	1	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	2	2	0	0	0	0	0
IPI00455383	Isoform 2 of Clathrin heavy chain 1	S 96	100% (39.66)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00455500	rapamycin-insensitive companion of mTOR	S 21	100% (101.52)	1.0000	13	6	2	2	0	0	0	0	2	2	0	0	0	0	3	2	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0
IPI00455518	MORC family CW-type zinc finger 2	S 553	100% (1,000.00)	1.0000	3	6	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00455518	MORC family CW-type zinc finger 2	S 681	100% (42.22)	1.0000	9	7	1	1	0	1	0	0	1	1	0	1	0	0	1	1	0	1	0	0	1	1	0	0	0	0	1	1	0	1	0	0	1	1	0	0	0	0
IPI00455806	paternally expressed 10 isoform RF1	S 252	100% (1,000.00)	1.0000	2	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456534	Isoform 2 of Tetratricopeptide repeat protein 7B	S 100	100% (60.12)	1.0000	1	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00456620	bromodomain and PHD finger-containing protein 1 isoform 1	S 460	100% (1,000.00)	1.0000	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00456620	bromodomain and PHD finger-containing protein 1 isoform 1	S 462	100% (1,000.00)	1.0000	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00456620	bromodomain and PHD finger-containing protein 1 isoform 1	S 1082	100% (64.28)	1.0000	4	2	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00456681	Isoform 1 of Transcription elongation factor SPT6	S 125	100% (127.94)	1.0000	24	18	8	0	0	0	0	0	8	0	0	0	0	0	8	0	0	0	0	0	7	0	0	0	0	0	6	0	0	0	0	0	5	0	0	0	0	0
IPI00456728	Isoform 2 of Ran-binding protein 3	S 328	100% (86.34)	1.0000	8	12	1	0	1	0	0	0	1	1	1	0	0	0	0	1	2	0	0	0	0	2	3	0	0	0	1	0	2	0	0	0	0	2	2	0	0	0
IPI00456729	Isoform 3 of Ran-binding protein 3	S 265	100% (86.34)	1.0000	8	12	1	0	1	0	0	0	1	1	1	0	0	0	0	1	2	0	0	0	0	2	3	0	0	0	1	0	2	0	0	0	0	2	2	0	0	0
IPI00456744	Isoform 1 of SH3 domain-binding protein 1	S 550	100% (52.86)	1.0000	6	4	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00456750	Niban-like protein	S 652	100% (1,000.00)	1.0000	14	19	0	4	1	0	0	0	0	4	0	0	0	0	0	5	0	0	0	0	0	6	1	0	0	0	0	6	1	0	0	0	0	4	1	0	0	0
IPI00456750	Niban-like protein	S 668	100% (1,000.00)	1.0000	4	6	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0
IPI00456887	Scaffold attachment factor A2	S 161	100% (1,000.00)	1.0000	54	64	4	9	3	2	0	0	7	9	2	1	0	0	4	11	0	1	1	0	7	5	3	2	0	0	4	12	3	1	1	2	6	12	3	1	0	2
IPI00456887	Scaffold attachment factor A2	S 168	100% (1,000.00)	1.0000	4	6	0	0	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0
IPI00456919	Isoform 1 of HECT, UBA and WWE domain-containing protein 1	S 1084	100% (81.69)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00456969	Dynein heavy chain, cytosolic	S 1230	100% (1,000.00)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00457284	hypothetical protein LOC23131	S 738	100% (1,000.00)	1.0000	4	4	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00457284	hypothetical protein LOC23131	S 740	100% (1,000.00)	1.0000	7	10	2	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0	0	3	0	0	0	0	0	2	1	0	0	0	0
IPI00464952	Splicing factor arginine/serine-rich 11	S 366	100% (1,000.00)	1.0000	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00464952	Splicing factor arginine/serine-rich 11	S 368	100% (1,000.00)	1.0000	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00464952	Splicing factor arginine/serine-rich 11	S 370	100% (1,000.00)	1.0000	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00464952	Splicing factor arginine/serine-rich 11	S 483	100% (1,000.00)	1.0000	9	8	0	1	3	0	0	0	0	1	2	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	1	3	0	0	0	0	1	1	0	0	0
IPI00464978	Insulin receptor substrate 2 insertion mutant (Fragment)	S 562	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00464981	Hypothetical protein gene +108	S 87	100% (72.00)	1.0000	4	3	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00465028	Triosephosphate isomerase	S 56	100% (86.24)	1.0000	18	17	1	1	0	1	2	1	1	0	0	1	2	1	1	0	1	2	2	1	0	0	0	2	2	2	0	0	0	2	3	1	0	0	0	2	3	0
IPI00465054	Hypothetical protein DKFZp686C1054	S 172	100% (62.03)	1.0000	34	33	1	1	3	8	0	0	0	1	2	7	0	0	1	1	2	7	0	0	1	1	4	6	0	0	1	1	2	6	0	0	1	1	3	6	0	0
IPI00465054	Hypothetical protein DKFZp686C1054	S 174	100% (63.53)	1.0000	31	29	1	1	2	7	0	0	0	1	3	6	0	0	1	1	2	6	0	0	1	1	3	5	0	0	1	1	3	5	0	0	1	1	2	5	0	0
IPI00465074	Isoform 3 of Kinesin light chain 3	S 480	100% (51.23)	1.0000	3	3	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00465128	Isoform 1 of Large proline-rich protein BAT3	S 972	100% (1,000.00)	1.0000	23	32	2	2	3	1	0	0	1	3	2	1	0	0	3	2	3	0	0	0	3	3	4	0	0	0	4	3	3	0	0	0	4	5	3	0	0	0
IPI00465132	Coatomer subunit epsilon	S 98	100% (1,000.00)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00465222	chromodomain helicase DNA binding protein 3 isoform 3	S 1646	100% (65.52)	1.0000	9	6	4	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0
IPI00465222	chromodomain helicase DNA binding protein 3 isoform 3	S 1650	100% (86.20)	1.0000	6	3	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00465287	ras responsive element binding protein 1 isoform 2	S 1167	100% (93.15)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00465288	ras responsive element binding protein 1 isoform 1	S 1167	100% (93.15)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00465345	Huntingtin interacting protein C, isoform 1	S 832	100% (1,000.00)	1.0000	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00465449	Meningioma-expressed antigen 5s splice variant	S 364	100% (99.63)	1.0000	7	6	0	2	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0
IPI00470461	Hypothetical protein DKFZp686L2367	S 688	100% (1,000.00)	1.0000	3	6	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00470596	Isoform 1 of Zinc finger protein 638	S 294	100% (1,000.00)	1.0000	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00470596	Isoform 1 of Zinc finger protein 638	S 299	100% (1,000.00)	1.0000	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00470596	Isoform 1 of Zinc finger protein 638	S 303	100% (1,000.00)	1.0000	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00470596	Isoform 1 of Zinc finger protein 638	S 605	100% (1,000.00)	1.0000	15	20	2	2	1	0	0	0	2	1	1	1	0	0	3	1	0	1	0	0	3	2	0	1	0	0	3	2	2	1	0	0	3	1	2	0	0	0
IPI00470596	Isoform 1 of Zinc finger protein 638	S 1100	100% (1,000.00)	1.0000	4	4	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00470901	215 kDa protein	S 1766	100% (1,000.00)	1.0000	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00472000	163 kDa protein	S 806	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00472094	Isoform 3 of Microtubule-associated protein 2	S 1320	100% (1,000.00)	1.0000	5	3	1	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00472094	Isoform 3 of Microtubule-associated protein 2	S 1343	100% (1,000.00)	1.0000	5	7	1	0	0	0	0	0	3	0	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00472094	Isoform 3 of Microtubule-associated protein 2	S 1349	100% (1,000.00)	1.0000	8	7	2	0	0	0	0	0	4	0	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00472160	Rho/Rac guanine nucleotide exchange factoR 2	S 1026	100% (1,000.00)	1.0000	3	2	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00472247	Isoform 2 of Homeobox protein cut-like 1	S 795	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00472293	PREDICTED: similar to ribosomal protein S27	S 18	100% (1,000.00)	1.0000	11	10	0	0	0	0	0	3	2	0	0	0	1	2	0	0	0	0	0	3	2	0	0	0	0	3	1	0	0	0	0	2	0	0	0	0	0	2
IPI00472430	Isoform 3 of Sp110 nuclear body protein	S 256	100% (174.21)	1.0000	4	5	0	0	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00472430	Isoform 3 of Sp110 nuclear body protein	S 380	100% (50.40)	1.0000	7	6	0	0	3	0	0	0	0	0	3	0	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0
IPI00472779	Ankyrin-3	S 847	100% (71.07)	1.0000	3	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00472782	PHD finger protein 14 isoform 1	S 835	100% (1,000.00)	1.0000	1	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00472901	chromodomain helicase DNA binding protein 7	S 2559	100% (49.35)	1.0000	4	5	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0
IPI00477005	E1A binding protein p400	S 2439	100% (1,000.00)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00477104	Pleckstrin homology domain containing, family A member 6	S 887	100% (72.55)	1.0000	3	7	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00477231	Meningioma-expressed antigen 5	S 364	100% (99.63)	1.0000	7	6	0	2	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0
IPI00477436	hypothetical protein LOC55684	S 553	100% (1,000.00)	1.0000	10	12	2	1	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0	0	1	2	0	0	0	0	1	3	0	0	0	0	2	3	0	0	0	0
IPI00477501	121 kDa protein	S 624	100% (1,000.00)	1.0000	4	10	1	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0
IPI00477526	Conserved hypothetical protein	S 144	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00477526	Conserved hypothetical protein	S 267	100% (1,000.00)	1.0000	7	7	0	0	1	1	0	0	0	0	1	1	0	0	0	1	2	0	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0
IPI00477763	Serine/threonine-protein kinase MRCK beta	S 1214	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00477787	Isoform AML-1B of Runt-related transcription factor 1	S 212	100% (60.33)	1.0000	10	3	0	0	1	2	0	0	0	0	2	2	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00477805	Isoform 1 of Telomere-associated protein RIF1	S 1454	100% (1,000.00)	1.0000	1	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00477949	zinc finger protein 262	S 122	100% (46.31)	1.0000	11	7	3	0	0	1	0	0	3	0	0	0	0	0	3	1	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	1	0
IPI00477959	TAF3 RNA polymerase II, TATA box binding protein	S 183	100% (1,000.00)	1.0000	3	3	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0
IPI00478030	Isoform 1 of Angiomotin-like protein 2	S 236	100% (1,000.00)	1.0000	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00478086	Non-class II protein	S 275	100% (51.34)	1.0000	8	6	1	1	0	2	1	0	1	0	0	1	0	0	0	0	0	1	0	0	1	1	1	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0
IPI00478086	Non-class II protein	S 276	100% (52.59)	1.0000	8	6	1	1	0	2	1	0	1	0	0	1	0	0	0	0	0	1	0	0	1	1	1	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0
IPI00478127	Transcription elongation factor A protein-like 3	S 65	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00478128	GATA zinc finger domain containing 2A	S 119	100% (74.64)	1.0000	16	16	1	0	3	1	0	0	2	2	3	0	0	0	1	0	2	1	0	0	0	3	3	0	0	0	0	1	3	0	0	0	1	2	3	0	0	0
IPI00478210	ankyrin 3 isoform 1	S 847	100% (71.07)	1.0000	3	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00478232	Isoform 1 of DNA topoisomerase 2-alpha	S 1142	100% (1,000.00)	1.0000	15	20	3	2	0	0	0	0	4	1	0	0	0	0	4	1	0	0	0	0	6	1	1	0	0	0	4	0	1	0	0	0	6	1	0	0	0	0
IPI00478232	Isoform 1 of DNA topoisomerase 2-alpha	S 1249	100% (103.92)	1.0000	6	13	2	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	4	0	0	0	0	0	3	1	0	0	0	0	4	1	0	0	0	0
IPI00478232	Isoform 1 of DNA topoisomerase 2-alpha	S 1283	100% (38.72)	1.0000	17	31	4	0	0	0	0	0	5	1	0	0	0	0	6	1	0	0	0	0	8	2	1	0	0	0	9	1	0	0	0	0	9	1	0	0	0	0
IPI00478232	Isoform 1 of DNA topoisomerase 2-alpha	S 1387	100% (71.07)	1.0000	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00478232	Isoform 1 of DNA topoisomerase 2-alpha	S 1390	100% (78.62)	1.0000	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00478232	Isoform 1 of DNA topoisomerase 2-alpha	S 1411	100% (1,000.00)	1.0000	5	6	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00478232	Isoform 1 of DNA topoisomerase 2-alpha	S 1414	100% (1,000.00)	1.0000	12	15	4	1	0	0	0	0	4	0	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0	0	5	1	0	0	0	0	4	1	0	0	0	0
IPI00478232	Isoform 1 of DNA topoisomerase 2-alpha	S 1541	100% (65.16)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00478456	Isoform 1 of Kinesin light chain 3	S 466	100% (51.23)	1.0000	3	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00478549	112 kDa protein	S 25	100% (41.87)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00478665	WW domain-containing adapter with a coiled-coil region isoform 2	S 8	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00478691	CDC-like kinase 2	S 140	100% (64.00)	1.0000	3	6	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0
IPI00478739	microfilament and actin filament cross-linker protein isoform b	S 2956	100% (1,000.00)	1.0000	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00479078	Tight junction protein occludin TM4 minus	S 436	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00479143	Pericentrin	S 1653	100% (1,000.00)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00479143	Pericentrin	S 2177	100% (54.76)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00479158	Ribosomal protein L12 variant	S 68	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00479168	Isoform 1 of E1A-binding protein p400	S 2476	100% (1,000.00)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00479186	pyruvate kinase 3 isoform 1	S 37	100% (38.26)	1.0000	2	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00479191	HNRPH1 protein	S 63	100% (90.73)	1.0000	5	9	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	2	1	0	0	0	0	1	2	0	0
IPI00479262	Isoform B of Eukaryotic translation initiation factor 4 gamma 1	S 1232	100% (1,000.00)	1.0000	6	6	1	0	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0
IPI00479262	Isoform B of Eukaryotic translation initiation factor 4 gamma 1	S 1597	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00479404	vacuolar protein sorting 13D isoform 1	S 1143	100% (49.80)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00479433	MSTP012	S 381	100% (1,000.00)	1.0000	5	7	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	0	1	0	0	0	0	2	1	0	0
IPI00479589	RNA binding motif protein 17	S 62	100% (85.52)	1.0000	33	27	1	1	3	4	2	0	1	1	3	4	2	0	1	1	2	5	2	0	1	1	2	3	1	0	1	1	3	4	1	0	1	1	2	4	1	0
IPI00479786	KH-type splicing regulatory protein	S 181	100% (38.16)	1.0000	3	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00479926	Isoform 2 of Ribosomal protein S6 kinase alpha-4	S 396	100% (1,000.00)	1.0000	2	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00479997	Stathmin	S 15	100% (1,000.00)	1.0000	16	15	0	0	0	0	5	1	0	0	0	0	0	4	0	0	0	0	4	2	0	0	0	0	3	1	0	0	0	0	4	2	0	0	0	0	4	1
IPI00479997	Stathmin	S 24	100% (1,000.00)	1.0000	8	15	0	0	0	0	2	0	0	0	0	0	0	3	0	0	0	0	2	1	0	0	0	0	5	1	0	0	0	0	2	3	0	0	0	0	4	0
IPI00479997	Stathmin	S 37	100% (80.10)	1.0000	26	33	0	0	0	0	7	1	0	0	0	0	9	1	0	0	0	0	7	1	0	0	0	0	11	2	0	0	0	1	8	2	0	0	0	0	8	1
IPI00480054	Isoform 3 of Nucleolar protein 8	S 764	100% (1,000.00)	1.0000	5	5	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00480054	Isoform 3 of Nucleolar protein 8	S 956	100% (86.34)	1.0000	2	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00480054	Isoform 3 of Nucleolar protein 8	S 957	100% (93.60)	1.0000	2	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00480054	Isoform 3 of Nucleolar protein 8	S 958	100% (102.87)	1.0000	2	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00480107	565 kDa protein	S 1398	100% (82.87)	1.0000	5	1	1	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00480107	565 kDa protein	S 4468	100% (1,000.00)	1.0000	6	2	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00480205	chromodomain protein, Y chromosome-like isoform a	S 201	100% (1,000.00)	1.0000	6	3	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00513728	HLA-B associated transcript 3	S 994	100% (1,000.00)	1.0000	23	32	2	2	3	1	0	0	1	3	2	1	0	0	3	2	3	0	0	0	3	3	4	0	0	0	4	3	3	0	0	0	4	5	3	0	0	0
IPI00513760	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin a2 isoform b	S 329	100% (1,000.00)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00513760	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin a2 isoform b	S 1377	100% (1,000.00)	1.0000	3	5	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00513760	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin a2 isoform b	S 1554	100% (43.86)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00513797	66 kDa protein	S 550	100% (52.76)	1.0000	1	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00513965	Zinc finger protein 262	S 67	100% (46.31)	1.0000	11	7	3	0	0	1	0	0	3	0	0	0	0	0	3	1	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	1	0
IPI00513971	40S ribosomal protein S27	S 10	100% (1,000.00)	1.0000	11	10	0	0	0	0	3	2	0	0	0	1	2	0	0	0	0	0	3	0	2	0	0	0	0	3	1	0	0	0	0	2	0	0	0	0	1	2

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00513991	620 kDa protein	S 2454	100% (1,000.00)	1.0000	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514068	Ras GTPase-activating-like protein IQGAP3	S 539	100% (83.29)	1.0000	4	6	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0
IPI00514073	vacuolar protein sorting 13D isoform 2	S 1143	100% (49.80)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514088	PREDICTED: hypothetical protein LOC25983 isoform 7	S 142	100% (131.75)	1.0000	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00514088	PREDICTED: hypothetical protein LOC25983 isoform 7	S 143	100% (133.10)	1.0000	4	5	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	2	0	0
IPI00514106	OTTHUMP00000016219	S 134	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514106	OTTHUMP00000016219	S 138	100% (1,000.00)	1.0000	3	5	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0	1	0	0
IPI00514106	OTTHUMP00000016219	S 139	100% (1,000.00)	1.0000	3	5	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0	1	0	0
IPI00514234	Ladinin 1	S 191	100% (1,000.00)	1.0000	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514396	OTTHUMP00000022609	S 390	100% (1,000.00)	1.0000	10	12	2	1	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0	0	1	2	0	0	0	0	1	3	0	0	0	0	2	3	0	0	0	0
IPI00514399	Ribosomal protein S27	S 11	100% (1,000.00)	1.0000	11	10	0	0	0	0	0	3	2	0	0	0	1	2	0	0	0	0	0	3	2	0	0	0	0	3	1	0	0	0	0	2	0	0	0	0	0	2
IPI00514411	Isoform 2 of Hepatitis B virus X-associated protein	S 563	100% (1,000.00)	1.0000	11	9	3	4	0	0	0	0	3	0	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	0	3	0	0	0	0	0	2	1	0	0	0	0
IPI00514411	Isoform 2 of Hepatitis B virus X-associated protein	S 707	100% (1,000.00)	1.0000	10	8	3	1	0	0	0	0	2	0	0	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0
IPI00514411	Isoform 2 of Hepatitis B virus X-associated protein	S 1304	100% (1,000.00)	1.0000	17	20	4	2	1	0	0	0	3	1	1	1	0	0	3	0	0	0	1	0	3	1	0	1	1	0	2	1	1	1	1	1	3	1	0	1	1	1
IPI00514468	670 kDa protein	S 2956	100% (1,000.00)	1.0000	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514648	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin a2 isoform a	S 329	100% (1,000.00)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00514648	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin a2 isoform a	S 1377	100% (1,000.00)	1.0000	3	5	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00514648	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin a2 isoform a	S 1572	100% (43.86)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514697	Papillary renal cell carcinoma	S 101	100% (48.49)	1.0000	11	11	1	0	2	1	0	0	1	0	1	1	0	0	1	0	1	2	0	0	0	0	3	0	0	0	0	1	2	1	0	0	1	1	2	0	0	0
IPI00514697	Papillary renal cell carcinoma	S 103	100% (49.74)	1.0000	10	7	1	0	1	1	0	0	1	0	2	1	0	0	1	0	1	1	0	0	0	0	1	0	0	0	0	1	1	1	0	0	1	1	1	0	0	0
IPI00514832	Tripartite motif protein 56	S 475	100% (47.84)	1.0000	4	6	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00514850	dynamin 1 isoform 2	S 566	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00515009	Isoform 5B of Cutaneous T-cell lymphoma-associated antigen 5	S 536	100% (44.44)	1.0000	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00515042	cingulin	S 338	100% (1,000.00)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00549473	PREDICTED: similar to Forkhead box protein K1 (Myocyte nuclear factor) (MNF) isoform 1	S 50	100% (41.57)	1.0000	11	15	0	1	1	0	0	0	0	3	1	1	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0	3	2	1	0	0	1	3	2	0	0	0
IPI00549473	PREDICTED: similar to Forkhead box protein K1 (Myocyte nuclear factor) (MNF) isoform 1	S 60	100% (44.28)	1.0000	8	14	0	1	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0	0	2	2	1	0	0	1	3	1	0	0	0
IPI00549473	PREDICTED: similar to Forkhead box protein K1 (Myocyte nuclear factor) (MNF) isoform 1	S 282	100% (64.64)	1.0000	19	17	1	2	1	1	0	0	2	2	2	1	0	0	2	2	2	1	0	0	0	2	1	0	0	0	1	2	2	1	0	1	2	2	2	1	0	0
IPI00549725	Phosphoglycerate mutase 1	S 13	100% (1,000.00)	1.0000	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	0
IPI00549786	AKT1S1 protein	S 183	100% (49.79)	1.0000	3	5	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	1	1	0	0
IPI00550191	Protein C9orf78	S 15	100% (103.85)	1.0000	15	18	0	0	0	3	3	0	0	0	0	1	2	0	0	0	0	4	2	0	0	0	0	2	3	0	0	0	1	4	2	0	0	0	0	3	3	0
IPI00550191	Protein C9orf78	S 17	100% (84.51)	1.0000	18	23	0	0	0	4	4	0	0	0	0	1	3	0	0	0	0	3	3	0	0	0	0	4	5	0	0	0	1	3	2	0	0	0	0	5	3	0
IPI00550243	THUMP domain-containing protein 1	S 86	100% (62.03)	1.0000	34	33	1	1	3	8	0	0	0	1	2	7	0	0	1	1	2	7	0	0	1	1	4	6	0	0	1	1	2	6	0	0	1	1	3	6	0	0
IPI00550243	THUMP domain-containing protein 1	S 88	100% (63.53)	1.0000	31	29	1	1	2	7	0	0	0	1	3	6	0	0	1	1	2	6	0	0	1	1	3	5	0	0	1	1	3	5	0	0	1	1	2	5	0	0
IPI00550363	Transgelin-2	S 162	100% (1,000.00)	1.0000	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00550385	Isoform 1 of Microtubule-actin crosslinking factor 1, isoforms 1/2/3/5	S 2398	100% (1,000.00)	1.0000	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00550506	Isoform 1 of Rho guanine nucleotide exchange factor 16	S 107	100% (47.82)	1.0000	4	4	0	1	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00550917	Twinfilin-2	S 349	100% (1,000.00)	1.0000	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00551014	Isoform 1 of Pumilio homolog 1	S 124	100% (1,000.00)	1.0000	6	1	2	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00552345	WD repeat domain 44	S 50	100% (1,000.00)	1.0000	4	5	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0
IPI00552483	U2 (RNU2) small nuclear RNA auxiliary factor 2 isoform b	S 79	100% (1,000.00)	1.0000	13	10	0	1	2	1	0	0	0	1	1	1	0	0	0	1	4	1	0	0	0	1	2	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0
IPI00552511	Isoform 4 of Disks large homolog 1	S 586	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00552700	Hypothetical protein DKFZp761B1514	S 23	100% (81.96)	1.0000	4	5	1	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0
IPI00552861	dynamin 1 isoform 1	S 566	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00552897	Isoform 1 of Mediator of DNA damage checkpoint protein 1	S 168	100% (95.44)	1.0000	3	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00553043	Hypothetical protein DKFZp781I1455	S 718	100% (74.69)	1.0000	9	14	0	2	0	0	0	0	2	2	0	0	0	0	2	1	0	0	0	0	2	2	0	0	0	0	2	2	1	0	0	0	2	2	1	0	0	0
IPI00554434	Hypothetical protein DKFZp686G18243	S 706	100% (74.69)	1.0000	9	14	0	2	0	0	0	0	2	2	0	0	0	0	2	1	0	0	0	0	2	2	0	0	0	0	2	2	1	0	0	0	2	2	1	0	0	0
IPI00554436	121 kDa protein	S 887	100% (1,000.00)	1.0000	1	4	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00554475	Isoform 3 of Aftiphilin	S 674	100% (51.13)	1.0000	4	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0
IPI00554497	Isoform 3 of Nance-Horan syndrome protein	S 237	100% (54.70)	1.0000	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0
IPI00554525	Isoform 2 of Nance-Horan syndrome protein	S 238	100% (54.70)	1.0000	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0
IPI00554590	Isoform 1 of Rab3 GTPase-activating protein non-catalytic subunit	S 450	100% (78.33)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00554648	Keratin, type II cytoskeletal 8	S 252	100% (71.22)	1.0000	6	6	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0
IPI00554648	Keratin, type II cytoskeletal 8	S 257	100% (70.43)	1.0000	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00554711	Junction plakoglobin	S 181	100% (1,000.00)	1.0000	4	6	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00554740	Isoform 1 of Aftiphilin	S 674	100% (51.13)	1.0000	4	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0
IPI00554788	Keratin, type I cytoskeletal 18	S 100	100% (47.75)	1.0000	3	4	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0
IPI00554788	Keratin, type I cytoskeletal 18	S 177	100% (1,000.00)	1.0000	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00555610	313 kDa protein	S 85	100% (44.14)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00555610	313 kDa protein	S 821	100% (1,000.00)	1.0000	4	3	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00555610	313 kDa protein	S 1205	100% (1,000.00)	1.0000	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0
IPI00555610	313 kDa protein	S 1755	100% (1,000.00)	1.0000	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00555610	313 kDa protein	S 1921	100% (1,000.00)	1.0000	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00555610	313 kDa protein	S 1979	100% (52.86)	1.0000	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00555610	313 kDa protein	S 2031	100% (94.42)	1.0000	3	5	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0
IPI00555610	313 kDa protein	S 2057	100% (1,000.00)	1.0000	1	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0
IPI00555610	313 kDa protein	S 2148	100% (1,000.00)	1.0000	2	5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00555610	313 kDa protein	S 2170	100% (133.03)	1.0000	4	7	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00555610	313 kDa protein	S 2181	100% (1,000.00)	1.0000	17	21	2	1	1	1	0	0	3	2	0	1	1	0	2	1	1	1	0	0	3	2	1	1	0	0	4	1	0	1	0	1	5	1	0	1	0	0
IPI00555610	313 kDa protein	S 2519	100% (1,000.00)	1.0000	11	12	1	1	1	1	0	0	1	1	1	0	0	0	1	1	1	1	0	0	2	1	1	0	0	0	2	1	1	0	0	0	2	1	1	0	0	0
IPI00555610	313 kDa protein	S 2623	100% (38.16)	1.0000	5	10	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0
IPI00555610	313 kDa protein	S 2820	100% (120.74)	1.0000	14	11	1	2	1	0	0	1	1	2	0	0	0	1	2	1	0	0	1	1	1	1	0	0	1	0	1	1	0	0	0	1	2	2	0	0	0	1
IPI00555610	313 kDa protein	S 2823	100% (111.69)	1.0000	48	51	5	5	3	2	1	0	4	5	2	2	1	0	6	5	1	3	2	1	6	4	2	3	1	0	6	4	1	3	2	0	6	5	2	3	2	1
IPI00555744	RPL14 protein	S 139	100% (1,000.00)	1.0000	6	5	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	1	1	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0
IPI00555838	Isoform 1 of Serine/threonine-protein kinase MARK2	S 486	100% (38.72)	1.0000	2	3	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00556082	Sorting nexin 1 isoform a variant (Fragment)	S 98	100% (99.60)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00556118	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin c1	S 310	100% (1,000.00)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00556118	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin c1	S 328	100% (94.90)	1.0000	42	46	6	6	2	2	0	0	6	4	2	2	0	0	4	6	1	1	0	0	6	6	2	2	0	0	7	5	2	1	0	0	5	6	2	2	0	0
IPI00556118	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin c1	S 330	100% (102.98)	1.0000	37	45	5	5	2	2	0	0	5	4	2	2	0	0	3	5	1	1	0	0	7	6	2	2	0	0	6	4	2	1	0	0	6	5	2	2	0	0
IPI00556118	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin c1	S 573	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
IPI00556171	Isoform 4 of Serine/threonine-protein kinase MARK2	S 486	100% (38.72)	1.0000	2	3	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00556187	Isoform 8 of Serine/threonine-protein kinase MARK2	S 486	100% (38.72)	1.0000	2	3	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00556468	Isoform 11 of Serine/threonine-protein kinase MARK2	S 486	100% (38.72)	1.0000	2	3	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00556472	Protein tyrosine phosphatase, non-receptor type 2 isoform 1 variant (Fragment)	S 281	100% (52.05)	1.0000	12	12	0	0	0	4	0	0	0	0	0	4	0	0	0	0	0	4	0	0	0	0	1	4	0	0	0	0	0	1	4	0	0	0	0	2	0	0
IPI00556594	Isoform 1 of Zinc finger CCHC domain-containing protein 8	S 665	100% (53.13)	1.0000	3	2	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00556620	Isoform 9 of Serine/threonine-protein kinase MARK2	S 486	100% (38.72)	1.0000	2	3	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00556645	forkhead box K1	S 213	100% (41.57)	1.0000	11	15	0	1	1	0	0	0	0	3	1	1	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0	3	2	1	0	0	1	3	2	0	0	0
IPI00556645	forkhead box K1	S 223	100% (44.28)	1.0000	8	14	0	1	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0	0	2	2	1	0	0	1	3	1	0	0	0
IPI00556645	forkhead box K1	S 445	100% (64.64)	1.0000	19	17	1	2	1	1	0	0	2	2	2	1	0	0	2	2	2	1	0	0	0	2	1	0	0	0	1	2	2	1	0	1	2	2	2	1	0	0
IPI00556650	Isoform 5 of Serine/threonine-protein kinase MARK2	S 486	100% (38.72)	1.0000	2	3	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00604399	Isoform 2 of Fanconi anemia group D2 protein	S 1435	100% (88.21)	1.0000	5	8	1	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	2	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0
IPI00604517	74 kDa protein	S 122	100% (1,000.00)	1.0000	26	23	0	6	1	0	0	0	3	7	1	0	0	0	1	6	0	1	0	0	2	6	1	0	0	0	0	7	1	0	0	0	0	5	1	0	0	0
IPI00604517	74 kDa protein	S 130	100% (1,000.00)	1.0000	22	17	0	4	0	0	0	0	2	6	0	0	0	0	2	7	0	1	0	0	2	7	1	0	0	0	0	3	0	0	0	0	0	4	0	0	0	0
IPI00604517	74 kDa protein	S 596	100% (1,000.00)	1.0000	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00607584	Isoform 2 of Myb-binding protein 1A	S 775	100% (104.80)	1.0000	10	12	2	2	1	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	2	3	1	0	0	0	0	1	1	1	0	0	2	1	0	0	0	0
IPI00607657	tripartite motif-containing 3	S 7	100% (1,000.00)	1.0000	5	5	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00607657	tripartite motif-containing 3	S 437	100% (62.07)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00607784	Isoform 3 of Zinc finger protein 638	S 294	100% (1,000.00)	1.0000	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00607784	Isoform 3 of Zinc finger protein 638	S 299	100% (1,000.00)	1.0000	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00607784	Isoform 3 of Zinc finger protein 638	S 303	100% (1,000.00)	1.0000	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00607784	Isoform 3 of Zinc finger protein 638	S 605	100% (1,000.00)	1.0000	15	20	2	2	1	0	0	0	2	1	1	1	0	0	3	1	0	1	0	0	3	2	0	1	0	0	3	2	2	1	0	0	3	1	2	0	0	0
IPI00607784	Isoform 3 of Zinc finger protein 638	S 1100	100% (1,000.00)	1.0000	4	4	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00607889	Isoform 5 of Transcription factor IIIB 90 kDa subunit	S 318	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00619921	Isoform 4 of Death-inducer obliterator 1	S 805	100% (120.67)	1.0000	8	7	1	1	0	0	0	0	2	1	0	0	0	0	3	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0
IPI00619921	Isoform 4 of Death-inducer obliterator 1	S 1040	100% (85.52)	1.0000	5	5	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00619921	Isoform 4 of Death-inducer obliterator 1	S 1456	100% (73.30)	1.0000	11	16	1	1	1	0	0	0	1	1	1	1	0	0	2	1	1	0	0	0	2	1	0	1	0	0	3	1	1	1	1	0	2	1	1	1	0	0
IPI00619935	JARID1A variant protein (Fragment)	S 1152	100% (89.37)	1.0000	3	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00619935	JARID1A variant protein (Fragment)	S 1529	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00639879	Novel protein	S 348	100% (51.81)	1.0000	6	7	0	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00640149	243 kDa protein	S 635	100% (1,000.00)	1.0000	3	5	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00640318	Hypothetical protein FLJ23236	S 53	100% (1,000.00)	1.0000	14	19	5	0	0	0	0	0	3	0	0	0	0	0	6	0	0	0	0	0	2	1	0	0	0	0	5	3	0	0	0	0	5	3	0	0	0	0
IPI00640318	Hypothetical protein FLJ23236	S 89	100% (1,000.00)	1.0000	3	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00640524	PREDICTED: hypothetical protein LOC57662	S 363	100% (1,000.00)	1.0000	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00640598	protein kinase C binding protein 1 isoform a	S 688	100% (86.75)	1.0000	9	9	1	2	0	0	0	0	0	2	0	0	0	0	1	2	0	1	0	0	2	1	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0
IPI00640645	OTTHUMP00000016072	S 2	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00640805	Isoform 2 of FRAS1-related extracellular matrix protein 2 precursor	S 2412	100% (1,000.00)	1.0000	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00640847	ATP citrate lyase isoform 1	S 481	100% (41.57)	1.0000	13	10	0	3	0	0	0	0	1	4	0	0	0	0	1	4	0	0	0	0	2	2	0	0	0	0	2	1	0	0	0	0	1	2	0	0	0	0
IPI00640922	Isoform 2 of Large proline-rich protein BAT3	S 958	100% (1,000.00)	1.0000	23	32	2	2	3	1	0	0	1	3	2	1	0	0	3	2	3	0	0	0	3	3	4	0	0	0	4	3	3	0	0	0	4	5	3	0	0	0
IPI00640954	WDR42A protein	S 99	100% (1,000.00)	1.0000	8	7	0	0	2	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	1	3	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0
IPI00641106	227 kDa protein	S 168	100% (95.44)	1.0000	3	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641181	MARCKS-related protein	S 21	100% (77.80)	1.0000	8	10	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	1	1	1	0	0	1	1	1	1	0	0	1	1	1	1	0	0	0	1	1	0
IPI00641287	Splicing factor p54	S 366	100% (1,000.00)	1.0000	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641287	Splicing factor p54	S 368	100% (1,000.00)	1.0000	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641287	Splicing factor p54	S 370	100% (1,000.00)	1.0000	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641287	Splicing factor p54	S 482	100% (1,000.00)	1.0000	9	8	0	1	3	0	0	0	0	1	2	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	1	3	0	0	0	0	1	1	0	0	0
IPI00641334	Hypothetical protein DKFZp686M0619	S 37	100% (1,000.00)	1.0000	9	14	0	0	0	0	2	2	0	0	0	0	2	0	0	0	0	2	1	0	0	0	1	4	1	0	0	0	2	2	0	0	0	0	2	2	0	0
IPI00641384	Isoform 1 of Protein KIAA0310	S 891	100% (1,000.00)	1.0000	2	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00641543	Rho guanine nucleotide exchange factor (GEF) 7	S 340	100% (38.03)	1.0000	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00641543	Rho guanine nucleotide exchange factor (GEF) 7	S 619	100% (41.87)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641616	Solute carrier family 9	S 207	100% (62.08)	1.0000	5	4	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00641640	LISCH protein isoform 1	S 445	100% (38.39)	1.0000	4	4	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0
IPI00641640	LISCH protein isoform 1	S 474	100% (148.52)	1.0000	17	15	0	2	3	2	0	0	0	2	2	1	0	0	0	1	2	2	0	0	0	1	2	2	0	0	0	1	2	2	0	0	0	1	2	2	0	0
IPI00641808	Hypothetical protein DKFZp586F0420	S 70	100% (49.76)	1.0000	3	5	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00641842	Splicing factor, arginine¥/serine-rich 11	S 306	100% (1,000.00)	1.0000	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641842	Splicing factor, arginine¥/serine-rich 11	S 308	100% (1,000.00)	1.0000	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641842	Splicing factor, arginine¥/serine-rich 11	S 310	100% (1,000.00)	1.0000	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641842	Splicing factor, arginine¥/serine-rich 11	S 423	100% (1,000.00)	1.0000	9	8	0	1	3	0	0	0	0	1	2	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	1	3	0	0	0	0	1	1	0	0	0
IPI00641990	Isoform 1 of LAS1-like protein	S 560	100% (1,000.00)	1.0000	2	4	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
IPI00642125	OTTHUMP00000016236	S 141	100% (1,000.00)	1.0000	3	3	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00642238	Hypothetical protein DKFZp434I0612	S 443	100% (50.63)	1.0000	4	4	0	0	2	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
IPI00642238	Hypothetical protein DKFZp434I0612	S 444	100% (45.65)	1.0000	4	4	0	0	2	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
IPI00642238	Hypothetical protein DKFZp434I0612	S 448	100% (41.78)	1.0000	4	4	0	0	2	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
IPI00642271	Isoform 1 of Adenosine 3'-phospho 5'-phosphosulfate transporter 1	S 427	100% (1,000.00)	1.0000	6	6	2	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0
IPI00642673	ATP-binding cassette, sub-family F (GCN20), member 1	S 106	100% (1,000.00)	1.0000	6	7	1	1	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0
IPI00642673	ATP-binding cassette, sub-family F (GCN20), member 1	S 110	100% (1,000.00)	1.0000	50	55	5	10	0	1	1	0	5	9	0	1	1	0	5	10	1	0	1	0	5	11	0	2	0	0	3	9	1	2	1	0	4	12	0	2	1	2
IPI00642673	ATP-binding cassette, sub-family F (GCN20), member 1	S 141	100% (1,000.00)	1.0000	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00642673	ATP-binding cassette, sub-family F (GCN20), member 1	S 229	100% (212.34)	1.0000	40	46	4	7	3	0	0	0	4	7	3	0	0	0	4	7	1	0	0	0	5	7	3	1	0	0	5	7	3	1	1	1	4	6	1	1	0	0
IPI00642935	Calcium homeostasis endoplasmic reticulum protein	S 651	100% (1,000.00)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00642971	eukaryotic translation elongation factor 1 delta isoform 1	S 499	100% (93.66)	1.0000	13	15	0	0	0	3	1	0	0	0	1	3	1	0	0	0	0	2	1	1	1	1	1	1	2	0	0	0	0	3	1	0	1	0	0	2	1	1
IPI00642971	eukaryotic translation elongation factor 1 delta isoform 1	S 528	100% (1,000.00)	1.0000	71	82	2	1	1	12	7	1	2	1	1	12	6	0	2	2	2	11	6	2	2	2	3	17	3	2	1	2	2	18	2	2	2	2	1	17	2	2
IPI00643082	CDC-like kinase 2 isoform 1	S 141	100% (64.00)	1.0000	3	6	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0
IPI00643153	Isoform 3 of HECT, UBA and WWE domain-containing protein 1	S 1075	100% (81.69)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00643168	Isoform 2 of Tight junction-associated protein 1	S 290	100% (1,000.00)	1.0000	9	7	0	1	1	1	0	0	1	1	1	1	0	0	1	1	0	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00643259	Rho¥/rac guanine nucleotide exchange factor (GEF) 2	S 933	100% (1,000.00)	1.0000	3	2	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00643342	Phosphoprotein enriched in astrocytes 15	S 137	100% (1,000.00)	1.0000	4	4	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2	0
IPI00643352	nucleoporin 214kDa	S 678	100% (1,000.00)	1.0000	12	9	0	1	0	0	0	0	2	2	1	0	0	0	4	2	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	4	1	0	0	0	0
IPI00643352	nucleoporin 214kDa	S 940	100% (1,000.00)	1.0000	1	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00643700	Isoform 4 of Nucleolar protein 8	S 852	100% (1,000.00)	1.0000	5	5	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00643700	Isoform 4 of Nucleolar protein 8	S 1044	100% (86.34)	1.0000	2	2	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00643700	Isoform 4 of Nucleolar protein 8	S 1045	100% (93.60)	1.0000	2	2	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00643700	Isoform 4 of Nucleolar protein 8	S 1046	100% (102.87)	1.0000	2	2	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00643874	76 kDa protein	S 125	100% (1,000.00)	1.0000	4	2	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00643874	76 kDa protein	S 126	100% (1,000.00)	1.0000	4	2	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00643920	Transketolase	S 295	100% (49.35)	1.0000	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00643923	PREDICTED: similar to HLA-B associated transcript-2 isoform a isoform 10	S 388	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00643923	PREDICTED: similar to HLA-B associated transcript-2 isoform a isoform 10	S 613	100% (1,000.00)	1.0000	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00643996	68 kDa protein	S 611	100% (46.62)	1.0000	3	5	0	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	1
IPI00644651	EPB41L1 protein	S 430	100% (62.03)	1.0000	7	3	0	1	0	0	0	0	1	2	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00644651	EPB41L1 protein	S 461	100% (1,000.00)	1.0000	7	0	0	1	0	0	0	0	2	1	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00644651	EPB41L1 protein	S 466	100% (1,000.00)	1.0000	4	1	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00644651	EPB41L1 protein	S 578	100% (1,000.00)	1.0000	10	5	1	2	0	0	0	0	2	1	0	0	0	0	2	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00644990	Ral GEF with PH domain and SH3 binding motif 2	S 294	100% (94.43)	1.0000	4	5	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0
IPI00645281	OTTHUMP00000031007	S 389	100% (59.46)	1.0000	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00645281	OTTHUMP00000031007	S 432	100% (1,000.00)	1.0000	11	11	1	1	1	1	0	0	1	1	0	1	0	0	1	1	1	1	0	0	1	1	1	1	0	0	1	1	0	1	0	0	1	1	1	1	0	0
IPI00645387	hepatoma-derived growth factor-related protein 2 isoform 2	S 240	100% (1,000.00)	1.0000	6	2	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00645387	hepatoma-derived growth factor-related protein 2 isoform 2	S 366	100% (1,000.00)	1.0000	8	4	0	3	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
IPI00645387	hepatoma-derived growth factor-related protein 2 isoform 2	S 369	100% (1,000.00)	1.0000	14	6	0	4	0	0	0	0	0	4	1	0	0	0	0	5	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0
IPI00645387	hepatoma-derived growth factor-related protein 2 isoform 2	S 370	100% (1,000.00)	1.0000	13	7	0	4	0	0	0	0	0	4	1	0	0	0	0	4	0	0	0	0	0	3	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0
IPI00645387	hepatoma-derived growth factor-related protein 2 isoform 2	S 454	100% (63.65)	1.0000	5	3	0	1	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00645387	hepatoma-derived growth factor-related protein 2 isoform 2	S 490	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00645387	hepatoma-derived growth factor-related protein 2 isoform 2	S 630	100% (52.60)	1.0000	9	12	1	2	1	0	0	0	1	3	0	0	0	0	0	1	0	0	0	0	1	3	2	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0
IPI00645387	hepatoma-derived growth factor-related protein 2 isoform 2	S 675	100% (67.76)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00645403	hypothetical protein LOC56243	S 1044	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00645608	Interferon regulatory factor 2 binding protein 1 variant	S 384	100% (1,000.00)	1.0000	3	5	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00645608	Interferon regulatory factor 2 binding protein 1 variant	S 436	100% (1,000.00)	1.0000	3	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
IPI00645725	108 kDa protein	S 556	100% (1,000.00)	1.0000	5	8	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	0	1	1	1	0	0
IPI00645725	108 kDa protein	S 940	100% (41.94)	1.0000	10	8	1	1	1	0	1	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	0	1	1	0	0	0
IPI00645728	82 kDa protein	S 300	100% (1,000.00)	1.0000	2	4	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0
IPI00645728	82 kDa protein	S 652	100% (1,000.00)	1.0000	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00645814	KIAA1187 protein	S 409	100% (44.28)	1.0000	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00645869	Isoform 2 of LAS1-like protein	S 543	100% (1,000.00)	1.0000	2	4	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
IPI00645907	fatty acid synthase	S 2123	100% (1,000.00)	1.0000	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00646054	Pumilio homolog 1	S 124	100% (1,000.00)	1.0000	6	1	2	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00646058	103 kDa protein	S 227	100% (1,000.00)	1.0000	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00646058	103 kDa protein	S 604	100% (38.72)	1.0000	6	7	0	1	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	1	3	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
IPI00646339	Hypothetical protein DKFZp586A0524	S 593	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00646374	Novel protein	S 416	100% (67.76)	1.0000	14	16	1	1	4	0	0	0	1	2	2	0	0	0	1	1	1	0	0	0	0	3	2	0	0	0	0	1	4	0	0	0	0	2	4	0	0	0
IPI00646374	Novel protein	S 418	100% (61.30)	1.0000	19	21	0	3	3	0	0	0	1	3	3	0	0	0	0	2	4	0	0	0	0	3	3	0	0	0	0	3	4	0	0	0	0	1	3	4	0	0
IPI00646377	Isoform 1 of Eukaryotic translation initiation factor 4 gamma 3	S 495	100% (69.75)	1.0000	1	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00646396	Isoform Gamma of Tripartite motif protein 3	S 7	100% (1,000.00)	1.0000	5	5	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00646396	Isoform Gamma of Tripartite motif protein 3	S 361	100% (62.07)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00646455	Solute carrier family 9	S 124	100% (62.08)	1.0000	5	4	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0
IPI00646486	HP1-BP74	S 403	100% (50.63)	1.0000	4	4	0	0	2	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
IPI00646486	HP1-BP74	S 404	100% (45.65)	1.0000	4	4	0	0	2	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00646486	HP1-BP74	S 408	100% (41.78)	1.0000	4	4	0	0	2	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00646493	COPA protein	S 173	100% (71.75)	1.0000	2	8	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0
IPI00646529	Hypothetical protein DKFZp434O1520	S 819	100% (1,000.00)	1.0000	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00646846	RNA binding motif protein 17	S 123	100% (85.52)	1.0000	33	27	1	1	3	4	2	0	1	1	3	4	2	0	1	1	2	5	2	0	1	1	2	3	1	0	1	1	3	4	1	0	1	1	2	4	1	0
IPI00646885	Rho GTPase activating protein 5 isoform a	S 1195	100% (83.21)	1.0000	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00646970	Interferon regulatory factor 2 binding protein 2	S 175	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00646970	Interferon regulatory factor 2 binding protein 2	S 344	100% (1,000.00)	1.0000	5	13	0	1	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	1	1	1	0	0	0	1	3	1	0	0	0	1	2	2	0	0
IPI00647008	Isoform 2 of Bromodomain-containing protein 7	S 279	100% (1,000.00)	1.0000	10	9	0	2	2	0	0	0	0	2	2	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0
IPI00647106	Isoform 2 of Discs large homolog 7	S 644	100% (66.34)	1.0000	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00647286	hypothetical protein LOC64855	S 665	100% (1,000.00)	1.0000	14	19	0	4	1	0	0	0	0	4	0	0	0	0	0	5	0	0	0	0	0	6	1	0	0	0	0	6	1	0	0	0	0	4	1	0	0	0
IPI00647286	hypothetical protein LOC64855	S 681	100% (1,000.00)	1.0000	4	6	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0
IPI00647528	29 kDa protein	S 94	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00647650	Eukaryotic translation initiation factor 3 subunit 3	S 183	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00647688	198 kDa protein	S 1325	100% (89.30)	1.0000	5	6	1	0	1	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0
IPI00647892	Isoform 1 of Discs large homolog 7	S 725	100% (66.34)	1.0000	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00647915	24 kDa protein	S 184	100% (1,000.00)	1.0000	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00651629	spectrin domain with coiled-coils 1 NSP5a3b	S 160	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00651643	Isoform 2 of Sequestosome-1	S 207	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00651651	tripartite motif-containing 33 protein isoform beta	S 753	100% (1,000.00)	1.0000	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00651651	tripartite motif-containing 33 protein isoform beta	S 756	100% (1,000.00)	1.0000	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00651651	tripartite motif-containing 33 protein isoform beta	S 757	100% (1,000.00)	1.0000	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00654555	NOL1 protein	S 67	100% (42.60)	1.0000	6	9	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0
IPI00654583	PREDICTED: hypothetical protein XP_944986	S 363	100% (89.60)	1.0000	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00654583	PREDICTED: hypothetical protein XP_944986	S 870	100% (45.37)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00654594	STRN protein	S 245	100% (60.94)	1.0000	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00654605	Hypothetical protein RPRC1	S 446	100% (44.28)	1.0000	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00654613	Isoform 4 of Tight junction-associated protein 1	S 225	100% (1,000.00)	1.0000	9	7	0	1	1	1	0	0	1	1	1	1	0	0	1	1	0	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00654682	Isoform 1 of Cyclin-L1	S 352	100% (55.13)	1.0000	12	15	2	0	3	0	0	0	1	0	2	0	0	0	1	1	2	0	0	0	1	2	2	0	0	0	2	2	3	0	0	0	1	0	2	0	0	0
IPI00654740	Isoform 3 of Cyclin-L1	S 125	100% (55.13)	1.0000	12	15	2	0	3	0	0	0	1	0	2	0	0	0	1	1	2	0	0	0	1	2	2	0	0	0	2	2	3	0	0	0	1	0	2	0	0	0
IPI00654779	ubiquitin fusion degradation 1-like isoform B	S 236	100% (48.87)	1.0000	8	11	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	2	0	1	0	0	0	3	0	1	0	0	0	3	0	1
IPI00654851	erbB-2 isoform b	S 1048	100% (47.30)	1.0000	4	1	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00654851	erbB-2 isoform b	S 1053	100% (64.78)	1.0000	15	11	3	2	0	0	0	0	3	2	0	0	0	0	3	2	0	0	0	0	3	0	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0
IPI00655754	Isoform Long of Ubiquitin fusion degradation protein 1 homolog	S 283	100% (48.87)	1.0000	8	11	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	2	0	1	0	0	0	3	0	1	0	0	0	3	0	1
IPI00655922	chromodomain protein, Y chromosome-like isoform b	S 147	100% (1,000.00)	1.0000	6	3	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00657824	26 kDa protein	S 21	100% (72.00)	1.0000	4	3	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00657954	118 kDa protein	S 804	100% (157.58)	1.0000	9	6	1	2	0	0	0	0	2	1	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00657967	79 kDa protein	S 474	100% (49.79)	1.0000	7	2	0	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00658093	61 kDa protein	S 432	100% (1,000.00)	1.0000	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0
IPI00658094	27 kDa protein	S 21	100% (72.00)	1.0000	4	3	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00658142	25 kDa protein	S 21	100% (72.00)	1.0000	4	3	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00718792	LOC387680 protein (Fragment)	S 227	100% (1,000.00)	1.0000	10	8	2	1	0	0	0	0	2	1	0	0	0	0	4	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0
IPI00718918	PREDICTED: similar to Occludin	S 309	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00718938	Isoform 6 of Protein kinase C-binding protein 1	S 523	100% (86.75)	1.0000	9	9	1	2	0	0	0	0	0	2	0	0	0	0	1	2	0	1	0	0	2	1	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0
IPI00719015	Isoform 2 of Dedicator of cytokinesis protein 9	S 21	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00719285	Citron	S 480	100% (63.58)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00719520	ATXN2 protein (Fragment)	S 573	100% (52.93)	1.0000	7	8	1	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	2	2	0	0	0	0
IPI00719643	Isoform 3 of Probable helicase senataxin	S 947	100% (1,000.00)	1.0000	2	4	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
IPI00719680	Isoform 5 of AP-3 complex subunit delta-1	S 931	100% (41.08)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00719682	Isoform 7 of Protein kinase C-binding protein 1	S 687	100% (86.75)	1.0000	9	9	1	2	0	0	0	0	0	2	0	0	0	0	1	2	0	1	0	0	2	1	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0
IPI00719818	nucleolar protein 5A	S 563	100% (1,000.00)	1.0000	3	4	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0
IPI00719818	nucleolar protein 5A	S 569	100% (1,000.00)	1.0000	38	24	1	1	6	1	1	0	3	2	8	1	1	0	1	3	8	1	1	0	0	3	4	0	0	0	0	3	6	1	0	0	0	3	4	0	0	0
IPI00719818	nucleolar protein 5A	S 570	100% (1,000.00)	1.0000	42	25	1	2	8	1	1	0	2	3	9	1	1	0	3	8	2	0	0	0	0	2	6	0	0	0	0	3	6	1	0	0	0	1	6	0	0	0
IPI00735267	PREDICTED: hypothetical protein LOC25983 isoform 3	S 142	100% (131.75)	1.0000	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00735267	PREDICTED: hypothetical protein LOC25983 isoform 3	S 143	100% (133.10)	1.0000	4	5	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0
IPI00735653	PREDICTED: similar to Protein KIAA1949 isoform 4	S 368	100% (1,000.00)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
IPI00736401	PREDICTED: similar to Occludin	S 309	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00736469	Isoform 2 of Kinesin light chain 3	S 465	100% (51.23)	1.0000	3	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00736707	PREDICTED: WD repeat domain 43 isoform 4	S 77	100% (1,000.00)	1.0000	3	2	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00736707	PREDICTED: WD repeat domain 43 isoform 4	S 431	100% (54.32)	1.0000	5	6	0	1	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0
IPI00736943	Isoform 5 of Homeobox protein cut-like 1	S 715	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00737659	PREDICTED: hypothetical protein LOC440193 isoform 1	S 227	100% (131.34)	1.0000	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00738219	PREDICTED: similar to Down-regulated in metastasis protein	S 2601	100% (1,000.00)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00738275	PREDICTED: WD repeat domain 43 isoform 2	S 77	100% (1,000.00)	1.0000	3	2	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00738275	PREDICTED: WD repeat domain 43 isoform 2	S 431	100% (54.32)	1.0000	5	6	0	1	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0
IPI00738937	PREDICTED: hypothetical protein LOC57479 isoform 1	S 61	100% (77.54)	1.0000	2	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00739117	HBxAg transactivated protein 2	S 2105	100% (1,000.00)	1.0000	3	3	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00739139	PREDICTED: similar to 60S ribosomal protein L14 (CAG-ISL 7) isoform 1	S 139	100% (1,000.00)	1.0000	6	5	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	1	1	0	0	0	1	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0
IPI00739371	PREDICTED: similar to Golgi autoantigen, golgin subfamily A member 6	S 1079	100% (87.62)	1.0000	6	7	2	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00739607	PREDICTED: similar to CG32045-PB, isoform B isoform 5	S 398	100% (51.81)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00739607	PREDICTED: similar to CG32045-PB, isoform B isoform 5	S 899	100% (1,000.00)	1.0000	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00739795	Isoform 5 of StAR-related lipid transfer protein 13	S 381	100% (1,000.00)	1.0000	3	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00740019	PREDICTED: similar to DVL-binding protein DAPLE isoform 9	S 227	100% (131.34)	1.0000	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00740207	RACK7 isoform j	S 663	100% (86.75)	1.0000	9	9	1	2	0	0	0	0	0	2	0	0	0	0	1	2	0	1	0	0	2	1	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0
IPI00741204	RACK7 isoform f	S 663	100% (86.75)	1.0000	9	9	1	2	0	0	0	0	0	2	0	0	0	0	1	2	0	1	0	0	2	1	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0
IPI00741537	PREDICTED: hypothetical protein LOC84726 isoform 1	S 388	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00741537	PREDICTED: hypothetical protein LOC84726 isoform 1	S 613	100% (1,000.00)	1.0000	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00741668	Isoform 7 of Homeobox protein cut-like 1	S 659	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00741728	PREDICTED: similar to heterogeneous nuclear ribonucleoprotein U	S 318	100% (1,000.00)	1.0000	54	64	4	9	3	2	0	0	7	9	2	1	0	0	4	11	0	1	1	0	7	5	3	2	0	0	4	12	3	1	1	2	6	12	3	1	0	2
IPI00741728	PREDICTED: similar to heterogeneous nuclear ribonucleoprotein U	S 325	100% (1,000.00)	1.0000	4	6	0	0	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0
IPI00741772	Isoform 4 of StAR-related lipid transfer protein 13	S 354	100% (1,000.00)	1.0000	3	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00741894	PREDICTED: similar to E3 ubiquitin protein ligase, HECT domain containing, 1	S 2370	100% (76.06)	1.0000	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00742102	PREDICTED: hypothetical protein LOC25983 isoform 9	S 117	100% (131.75)	1.0000	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00742102	PREDICTED: hypothetical protein LOC25983 isoform 9	S 118	100% (133.10)	1.0000	4	5	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0
IPI00742111	Isoform 6 of Homeobox protein cut-like 1	S 761	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 270	100% (100.23)	1.0000	12	10	2	1	1	0	0	0	2	1	1	0	0	0	2	1	1	0	0	0	2	1	0	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 299	100% (78.16)	1.0000	8	4	2	1	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 814	100% (38.16)	1.0000	7	9	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 1367	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 1623	100% (1,000.00)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00742934	HLA-B associated transcript-2 isoform a	S 342	100% (1,000.00)	1.0000	15	16	3	2	0	0	0	0	3	3	0	0	0	0	2	2	0	0	0	0	1	1	0	0	0	0	4	3	1	0	0	0	3	2	1	0	0	0
IPI00742934	HLA-B associated transcript-2 isoform a	S 350	100% (1,000.00)	1.0000	15	16	3	2	0	0	0	0	3	3	0	0	0	0	2	2	0	0	0	0	1	1	0	0	0	0	4	3	1	0	0	0	3	2	1	0	0	0
IPI00743026	179 kDa protein	S 1354	100% (64.21)	1.0000	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00743031	Retinoid x ReceptoR inteRacting pRotein	S 44	100% (1,000.00)	1.0000	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00743031	Retinoid x ReceptoR inteRacting pRotein	S 46	100% (1,000.00)	1.0000	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00743031	Retinoid x ReceptoR inteRacting pRotein	S 677	100% (1,000.00)	1.0000	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00743314	General vesicular transport factor p115	S 942	100% (111.14)	1.0000	24	24	2	6	1	0	0	0	1	3	1	0	1	0	2	6	1	0	0	0	3	6	1	0	0	0	1	4	0	0	1	0	2	4	1	0	1	0
IPI00743585	59 kDa protein	S 490	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00743803	Isoform 2 of Probable nucleolar complex protein 14	S 146	100% (1,000.00)	1.0000	2	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00743803	Isoform 2 of Probable nucleolar complex protein 14	S 148	100% (1,000.00)	1.0000	2	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00743804	67 kDa protein	S 470	100% (52.86)	1.0000	6	4	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00744005	notch 2 preproprotein	S 1778	100% (1,000.00)	1.0000	1	5	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	1	0	1	0	0	0
IPI00744288	Isoform 5 of C-jun-amino-terminal kinase-interacting protein 4	S 203	100% (1,000.00)	1.0000	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00744288	Isoform 5 of C-jun-amino-terminal kinase-interacting protein 4	S 479	100% (55.21)	1.0000	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00744429	61 kDa protein	S 441	100% (50.63)	1.0000	4	4	0	0	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00744429	61 kDa protein	S 442	100% (45.65)	1.0000	4	4	0	0	2	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
IPI00744429	61 kDa protein	S 446	100% (41.78)	1.0000	4	4	0	0	2	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
IPI00744537	80 kDa protein	S 7	100% (1,000.00)	1.0000	5	5	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00744537	80 kDa protein	S 426	100% (62.07)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00744623	Isoform 3 of Leucine zipper protein 1	S 659	100% (85.91)	1.0000	22	19	2	2	1	1	1	0	2	2	1	1	1	0	2	2	2	2	0	0	2	2	1	1	0	0	2	2	1	1	0	0	2	2	1	2	0	0
IPI00744692	Transaldolase	S 237	100% (47.97)	1.0000	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00744888	IMP dehydrogenase/GMP reductase family protein	S 252	100% (1,000.00)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00744888	IMP dehydrogenase/GMP reductase family protein	S 253	100% (1,000.00)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00744888	IMP dehydrogenase/GMP reductase family protein	S 258	100% (1,000.00)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00744900	160 kDa protein	S 178	100% (50.05)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00744900	160 kDa protein	S 297	100% (1,000.00)	1.0000	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00744900	160 kDa protein	S 1244	100% (54.49)	1.0000	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00745010	TNRC11 protein	S 482	100% (1,000.00)	1.0000	3	5	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00745155	80 kDa protein	S 44	100% (1,000.00)	1.0000	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00745155	80 kDa protein	S 46	100% (1,000.00)	1.0000	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00745155	80 kDa protein	S 679	100% (1,000.00)	1.0000	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00745321	PREDICTED: similar to CG17233-PA, isoform A isoform 5	S 52	100% (77.54)	1.0000	2	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00745518	Microtubule-associated protein 4 isoform 1 variant (Fragment)	S 386	100% (80.38)	1.0000	4	2	0	2	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00745518	Microtubule-associated protein 4 isoform 1 variant (Fragment)	S 535	100% (79.02)	1.0000	35	37	5	5	1	0	0	0	6	5	1	1	0	0	5	5	1	0	0	0	6	5	1	1	0	0	4	7	1	1	0	0	4	5	1	1	0	0
IPI00745518	Microtubule-associated protein 4 isoform 1 variant (Fragment)	S 1101	100% (1,000.00)	1.0000	9	9	0	0	1	2	0	0	0	0	1	1	0	1	1	0	1	1	0	0	0	0	1	1	0	0	1	0	0	1	1	0	1	1	0	2	0	0
IPI00745876	53 kDa protein	S 436	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00746051	Hypothetical protein FLJ20048	S 505	100% (86.34)	1.0000	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00746062	PPP4R2 protein	S 254	100% (95.27)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00746182	SEC31-like 1 isoform 1	S 799	100% (1,000.00)	1.0000	15	17	2	4	0	0	0	0	2	3	0	1	0	0	1	2	0	0	0	0	3	2	1	1	0	0	4	2	0	0	0	0	2	2	0	0	0	0
IPI00746204	PARF	S 596	100% (1,000.00)	1.0000	10	12	2	1	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0	0	1	2	0	0	0	0	1	3	0	0	0	0	2	3	0	0	0	0
IPI00746657	54 kDa protein	S 79	100% (1,000.00)	1.0000	13	10	0	1	2	1	0	0	0	1	1	1	0	0	0	1	4	1	0	0	0	1	2	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0
IPI00746684	dedicator of cytokinesis 5	S 1766	100% (1,000.00)	1.0000	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00746752	Isoform C of Bromodomain and WD-repeat domain-containing protein 1	S 696	100% (71.95)	1.0000	4	5	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00746773	IQ motif containing GTPase activating protein 3	S 496	100% (83.29)	1.0000	4	6	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00746968	15 kDa protein	S 21	100% (72.00)	1.0000	4	3	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00746976	Dynamin-like protein DYNIV-11 variant	S 605	100% (92.76)	1.0000	14	23	0	2	2	0	0	0	0	3	2	0	0	0	0	2	3	0	0	0	0	2	3	0	2	0	0	4	2	0	1	0	0	5	3	0	1	0
IPI00747047	Treacle major isoform	S 446	100% (57.71)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
IPI00747047	Treacle major isoform	S 906	100% (1,000.00)	1.0000	8	10	1	2	2	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	1	1	0	2	0	0	3	1	0	0	0	0	1	1	0	0	0	0
IPI00747047	Treacle major isoform	S 1257	100% (1,000.00)	1.0000	4	5	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00747047	Treacle major isoform	S 1350	100% (1,000.00)	1.0000	5	5	1	1	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0
IPI00747047	Treacle major isoform	S 1378	100% (46.10)	1.0000	59	42	3	4	4	4	4	0	5	2	4	5	4	0	5	2	4	4	5	0	3	4	3	5	1	0	2	2	3	3	2	0	5	1	3	3	2	0
IPI00747052	Isoform 2 of Nardilysin precursor	S 86	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00747249	WD repeat domain 42A	S 99	100% (1,000.00)	1.0000	8	7	0	0	2	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	1	3	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0
IPI00747309	Regulator of chromosome condensation	S 11	100% (1,000.00)	1.0000	21	18	2	1	1	4	0	0	1	1	2	2	0	0	1	1	2	3	0	0	1	0	2	2	0	0	1	0	1	2	0	0	2	1	2	4	0	0
IPI00747740	Hypothetical protein DKFZp686F0572	S 50	100% (1,000.00)	1.0000	4	5	0	1	0	0	0	0	0	1	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00747970	CDNA FLJ46465 fis, clone THYMU3022434, highly similar to Monocytic leukemia zinc finger protein. (Fra	S 534	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748033	23 kDa protein	S 47	100% (1,000.00)	1.0000	9	11	0	3	2	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	2	2	0	0	0	0	2	1	0	0	0	0	2	2	0	0	0
IPI00748033	23 kDa protein	S 49	100% (1,000.00)	1.0000	4	5	0	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0
IPI00748478	Isoform 4 of E1A-binding protein p400	S 2361	100% (1,000.00)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00748579	RACK7 isoform d	S 663	100% (86.75)	1.0000	9	9	1	2	0	0	0	0	0	2	0	0	0	0	1	2	0	1	0	0	2	1	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0
IPI00748715	septin 9	S 12	100% (99.23)	1.0000	13	14	1	0	1	0	1	1	1	0	1	0	1	1	1	1	1	0	1	1	0	0	1	0	0	1	1	1	2	0	1	1	1	1	2	0	1	1
IPI00748753	153 kDa protein	S 598	100% (1,000.00)	1.0000	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748753	153 kDa protein	S 602	100% (1,000.00)	1.0000	7	10	1	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0
IPI00748753	153 kDa protein	S 603	100% (1,000.00)	1.0000	7	10	1	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 377	100% (102.87)	1.0000	9	10	3	1	0	0	0	0	0	1	0	0	0	0	4	0	0	0	0	0	3	1	0	0	0	0	1	1	0	0	0	0	3	1	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 404	100% (1,000.00)	1.0000	3	4	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 408	100% (1,000.00)	1.0000	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 440	100% (77.24)	1.0000	22	20	2	3	0	0	0	0	5	4	0	0	0	0	5	3	0	0	0	0	6	3	0	0	0	0	3	2	0	0	0	0	5	1	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1326	100% (1,000.00)	1.0000	3	6	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1329	100% (1,000.00)	1.0000	5	4	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1762	100% (1,000.00)	1.0000	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1764	100% (1,000.00)	1.0000	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 2272	100% (142.73)	1.0000	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 2335	100% (71.75)	1.0000	2	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 2407	100% (92.89)	1.0000	6	2	0	1	1	0	0	0	0	1	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 2664	100% (1,000.00)	1.0000	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00749082	57 kDa protein	S 47	100% (96.85)	1.0000	10	11	1	0	2	0	0	0	2	0	1	0	0	0	2	0	1	1	0	0	1	0	2	0	1	0	2	0	2	0	0	0	2	0	1	0	0	0
IPI00749208	Small intestine SPAK-like kinase	S 316	100% (59.08)	1.0000	6	9	0	0	1	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0
IPI00749302	Hypothetical protein DKFZp686L20116	S 58	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00749377	199 kDa protein	S 2	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00759472	inner centromere protein antigens 135/155kDa isoform 2	S 275	100% (51.01)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00759502	74 kDa protein	S 181	100% (38.16)	1.0000	3	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00759546	Isoform 5 of Afadin	S 708	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00759546	Isoform 5 of Afadin	S 1106	100% (79.27)	1.0000	5	4	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00759546	Isoform 5 of Afadin	S 1171	100% (1,000.00)	1.0000	6	5	1	0	0	0	0	0	1	1	0	0	0	0	3	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00759546	Isoform 5 of Afadin	S 1172	100% (1,000.00)	1.0000	4	5	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00759546	Isoform 5 of Afadin	S 1181	100% (1,000.00)	1.0000	19	20	4	1	1	0	0	0	3	2	1	0	0	0	5	1	1	0	0	0	5	2	1	1	0	0	4	1	0	0	0	0	5	0	1	0	0	0
IPI00759630	Isoform 2 of Nucleolar protein 8	S 822	100% (1,000.00)	1.0000	5	5	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00759630	Isoform 2 of Nucleolar protein 8	S 1014	100% (86.34)	1.0000	2	2	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00759630	Isoform 2 of Nucleolar protein 8	S 1015	100% (93.60)	1.0000	2	2	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00759630	Isoform 2 of Nucleolar protein 8	S 1016	100% (102.87)	1.0000	2	2	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00759817	Isoform TAFII15 of Transcription initiation factor TFIID subunit 12	S 21	100% (79.03)	1.0000	3	7	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	2	0
IPI00003842	Isoform 1 of Microtubule-associated protein 2	S 1782	100% (36.83)	1.0000	23	20	1	1	2	1	2	1	1	1	2	1	1	1	0	1	2	1	2	2	0	1	2	1	1	1	1	1	2	1	1	1	1	1	2	1	1	1
IPI00007334	Isoform 1 of Apoptotic chromatin condensation inducer in the nucleus	S 657	100% (39.78)	1.0000	5	4	0	1	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
IPI00007334	Isoform 1 of Apoptotic chromatin condensation inducer in the nucleus	S 838	100% (36.05)	1.0000	8	10	1	2	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0
IPI00009101	Transcriptional activator SRCAP	S 2811	100% (36.20)	1.0000	3	1	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00010728	203 kDa protein	S 1813	100% (36.83)	1.0000	23	20	1	1	2	1	2	1	1	1	2	1	1	1	0	1	2	1	2	2	0	1	2	1	1	1	1	1	2	1	1	1	1	1	2	1	1	1
IPI00012669	Hypothetical protein DKFZp564H1322	S 32	100% (35.25)	1.0000	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0
IPI00013272	Isoform 1 of Golgin subfamily A member 4	S 266	100% (71.03)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00024816	Hypothetical protein FLJ22484	S 131	100% (36.05)	1.0000	6	5	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 1430	100% (41.09)	1.0000	7	6	3	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00100453	DENN domain containing protein	S 351	100% (71.98)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00104050	Thyroid hormone receptor-associated protein 3	S 253	100% (39.16)	1.0000	25	29	3	3	2	0	0	0	2	4	2	0	0	0	3	5	1	0	0	0	3	4	2	0	0	0	3	3	2	1	0	0	3	5	2	0	0	1
IPI00142716	DnaJ homology subfamily A member 5 isoform 2	S 370	100% (35.75)	1.0000	4	7	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																				SNU216-LR															
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00166612	cardiomyopathy associated 5	S 2682	100% (37.54)	1.0000	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00171422	CDNA PSEC0094 fis, clone NT2RP2001499, weakly similar to PROTEIN PTM1	S 484	100% (37.54)	1.0000	8	5	2	1	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0
IPI00185371	CDNA FLJ40432 fis, clone TESTI2039227	S 274	100% (36.83)	1.0000	10	7	0	0	1	2	1	0	1	0	0	1	1	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	1	1	1	0	0	1	1	0	0
IPI00186966	Isoform IIA of Myc box-dependent-interacting protein 1	S 296	100% (58.98)	1.0000	18	12	0	0	5	2	0	0	0	0	3	1	0	0	0	0	6	1	0	0	0	0	3	0	0	0	0	0	4	1	0	0	0	0	3	1	0	0
IPI00217466	Histone H1.3	S 36	100% (71.03)	1.0000	7	9	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	1	2	0	0
IPI00217467	Histone H1.4	S 35	100% (71.03)	1.0000	7	9	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	1	2	0	0
IPI00217468	Histone H1.5	S 188	100% (36.05)	1.0000	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220521	Isoform 3 of Golgin subfamily A member 4	S 266	100% (71.03)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00220522	Isoform 4 of Golgin subfamily A member 4	S 266	100% (71.03)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00220587	Isoform BIN1+12A of Myc box-dependent-interacting protein 1	S 280	100% (58.98)	1.0000	18	12	0	0	5	2	0	0	0	0	3	1	0	0	0	0	6	1	0	0	0	0	3	0	0	0	0	0	4	1	0	0	0	0	3	1	0	0
IPI00220996	Isoform IIB of Myc box-dependent-interacting protein 1	S 265	100% (58.98)	1.0000	18	12	0	0	5	2	0	0	0	0	3	1	0	0	0	0	6	1	0	0	0	0	3	0	0	0	0	0	4	1	0	0	0	0	3	1	0	0
IPI00220998	Isoform II2 of Myc box-dependent-interacting protein 1	S 265	100% (58.98)	1.0000	18	12	0	0	5	2	0	0	0	0	3	1	0	0	0	0	6	1	0	0	0	0	3	0	0	0	0	0	4	1	0	0	0	0	3	1	0	0
IPI00329650	Nucleoporin NUP53	S 73	100% (36.22)	1.0000	6	8	0	0	0	2	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	3	0	0	0	0	2	0	0	0	0	0	3	0	0	0
IPI00329694	Isoform 2 of Golgin subfamily A member 4	S 266	100% (71.03)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00376976	Isoform 1 of 130-kDa phosphatidylinositol 4,5-biphosphate-dependent ARF1 GTPase- activating protein	S 846	100% (69.71)	1.0000	5	9	0	1	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	3	0	0	0	0
IPI00383694	D13S824E locus	S 129	100% (37.57)	1.0000	2	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00410303	development and differentiation enhancing factor 1	S 843	100% (69.71)	1.0000	5	9	0	1	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	3	0	0	0	0
IPI00413366	DnaJ homology subfamily A member 5 isoform 1	S 370	100% (35.75)	1.0000	4	7	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00440932	Isoform 1 of ADAM 9 precursor	S 758	100% (35.45)	1.0000	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00444046	CDNA FLJ46149 fis, clone TESTI4000621, moderately similar to Homo sapiens Snf2-related CBP activator	S 3016	100% (36.20)	1.0000	3	1	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00445401	Isoform 2 of HECT, UBA and WWE domain-containing protein 1	S 1368	100% (36.05)	1.0000	4	3	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00456919	Isoform 1 of HECT, UBA and WWE domain-containing protein 1	S 1368	100% (36.05)	1.0000	4	3	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00472094	Isoform 3 of Microtubule-associated protein 2	S 1778	100% (36.83)	1.0000	23	20	1	1	2	1	2	1	1	1	2	1	1	1	0	1	2	1	2	2	0	1	2	1	1	1	1	1	2	1	1	1	1	1	2	1	1	1
IPI00514832	Tripartite motif protein 56	S 471	100% (39.81)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00549766	Isoform 1 of Protein FAM40A	S 335	100% (69.71)	1.0000	13	13	1	3	0	1	0	0	1	2	0	1	0	0	1	2	0	1	0	0	0	3	1	0	0	0	1	2	1	1	0	0	1	2	0	1	0	0
IPI00550342	KIAA0309 protein	S 2858	100% (36.20)	1.0000	3	1	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00643153	Isoform 3 of HECT, UBA and WWE domain-containing protein 1	S 1359	100% (36.05)	1.0000	4	3	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 1435	100% (41.09)	1.0000	7	6	3	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00744950	CDNA FLJ45849 fis, clone OCBBF2014745	S 254	100% (35.75)	1.0000	4	7	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0
IPI00746398	hypothetical protein LOC55667	S 467	100% (71.98)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00747759	91 kDa protein	S 760	100% (35.45)	1.0000	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00000846	Isoform 1 of Chromodomain helicase-DNA-binding protein 4	S 1531	100% (56.47)	1.0000	5	5	2	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00011675	Isoform Sp100-HMG of Nuclear autoantigen Sp-100	S 409	100% (68.41)	1.0000	2	4	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00012345	Isoform SRP55-1 of Splicing factor, arginine/serine-rich 6	S 303	100% (48.87)	1.0000	32	35	0	0	4	5	0	0	0	2	4	4	0	0	1	2	4	5	1	0	0	2	7	5	0	0	1	1	4	5	0	0	0	2	5	3	0	0
IPI00013891	Isoform Long of Transformer-2 protein homolog	S 260	100% (72.72)	1.0000	15	18	1	1	1	3	1	0	1	0	1	1	0	0	1	0	0	4	0	0	1	0	1	2	0	0	1	1	0	3	1	0	1	1	2	3	1	0
IPI00016006	Gephyrin	S 188	100% (75.68)	1.0000	5	4	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00016570	Isoform 3 of Bromodomain-containing protein 8	S 128	100% (35.11)	1.0000	2	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00021129	Isoform 1 of AP-3 complex subunit beta-1	S 276	100% (34.15)	1.0000	8	5	1	1	1	0	0	0	1	0	0	0	0	0	1	3	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00023322	Zinc-finger protein ubi-d4	S 142	100% (67.76)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00024291	Bcl2-antagonist of cell death	S 25	100% (67.76)	1.0000	2	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00024971	Oxysterol-binding protein 1	S 190	100% (72.00)	1.0000	16	15	2	3	1	0	0	0	2	3	0	0	0	0	2	3	0	0	0	0	1	4	0	0	0	0	1	3	0	1	0	0	2	3	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 1426	100% (35.89)	1.0000	4	2	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00030274	hypothetical protein LOC84081 isoform 1	S 255	100% (39.72)	1.0000	2	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00043622	Isoform 1 of FERM domain-containing protein 6	S 544	100% (34.15)	1.0000	6	7	1	0	0	0	1	0	1	1	0	0	1	0	1	0	0	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	0	1	0	0	0	0
IPI00101049	NMD3 homolog	S 468	100% (36.01)	1.0000	6	2	0	0	1	0	0	0	0	0	2	0	0	0	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00104050	Thyroid hormone receptor-associated protein 3	S 406	100% (69.54)	1.0000	5	6	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	1	0	0	0	1	1	0	0	0	0
IPI00107113	Isoform 1 of U3 small nucleolar RNA-associated protein 14 homolog A	S 29	100% (38.16)	1.0000	4	5	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00145593	Nucleolar protein with MIF4G domain 1	S 321	100% (37.05)	1.0000	2	3	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00148057	Isoform 2 of Bromodomain-containing protein 8	S 268	100% (35.11)	1.0000	2	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00164528	Alpha-1-syntrophin	S 193	100% (71.43)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00184477	gephyrin isoform 1	S 188	100% (75.68)	1.0000	5	4	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00184707	Isoform 2 of FERM domain-containing protein 6	S 536	100% (34.15)	1.0000	6	7	1	0	0	0	1	0	1	1	0	0	1	0	1	0	0	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	0	1	0	0	0	0
IPI00215879	Isoform SRP55-3 of Splicing factor, arginine/serine-rich 6	S 303	100% (48.87)	1.0000	32	35	0	0	4	5	0	0	0	2	4	4	0	0	1	2	4	5	1	0	0	2	7	5	0	0	1	1	4	5	0	0	0	2	5	3	0	0
IPI00216540	Isoform 4 of Protein kinase C-binding protein 1	S 171	100% (72.73)	1.0000	12	14	3	1	1	0	0	0	3	0	1	0	0	0	2	0	1	0	0	0	3	1	1	0	0	0	3	1	1	0	0	0	2	1	1	0	0	0
IPI00216654	Isoform Beta of Nucleolar phosphoprotein p130	S 518	100% (34.56)	1.0000	9	18	0	1	1	1	0	0	0	1	1	1	0	0	0	1	0	2	0	0	0	2	1	2	0	0	1	2	1	2	0	0	1	2	2	2	0	0
IPI00291800	Isoform 1 of Eukaryotic translation initiation factor 4E transporter	S 564	100% (67.69)	1.0000	6	6	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00292387	Isoform Alpha of Nucleolar phosphoprotein p130	S 508	100% (34.56)	1.0000	9	18	0	1	1	1	0	0	0	1	1	1	0	0	0	1	0	2	0	0	0	2	1	2	0	0	1	2	1	2	0	0	1	2	2	2	0	0
IPI00297859	Isoform 1 of Myeloid/lymphoid or mixed-lineage leukemia protein 2	S 1331	100% (34.15)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00301503	Isoform 1 of Arginine/serine-rich splicing factor 10	S 264	100% (72.72)	1.0000	15	18	1	1	1	3	1	0	1	0	1	1	0	0	1	0	0	4	0	0	1	0	1	2	0	0	1	1	0	3	1	0	1	1	2	3	1	0
IPI00303343	Serine arginine-rich pre-mRNA splicing factor SR-A1	S 719	100% (56.94)	1.0000	6	5	0	1	0	0	0	1	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00304589	182 kDa tankyrase 1-binding protein	S 1533	100% (67.76)	1.0000	4	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00307733	huntingtin interacting protein B	S 251	100% (34.83)	1.0000	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00337346	Isoform 3 of FERM domain-containing protein 6	S 186	100% (34.15)	1.0000	6	7	1	0	0	0	1	0	1	1	0	0	1	0	1	0	0	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	0	1	0	0	0	0
IPI00377244	Isoform 2 of Myeloid/lymphoid or mixed-lineage leukemia protein 2	S 1026	100% (34.15)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00377245	Isoform 3 of Myeloid/lymphoid or mixed-lineage leukemia protein 2	S 1331	100% (34.15)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00383396	Isoform 1 of Autophagy-related protein 9A	S 735	100% (68.23)	1.0000	6	8	1	1	0	0	0	0	1	1	0	0	1	0	1	0	0	0	0	0	1	0	0	0	1	0	2	0	0	0	1	0	1	1	0	0	1	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00394926	DNA polymerase delta subunit 3	S 307	100% (67.69)	1.0000	30	25	2	1	3	3	1	0	2	1	3	4	0	0	1	1	4	3	1	0	2	1	3	3	0	0	1	1	3	4	0	0	1	1	2	3	0	0
IPI00414095	Eukaryotic translation initiation factor 4E nuclear import factor 1	S 391	100% (67.69)	1.0000	6	6	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00418316	RACK7 isoform e	S 567	100% (72.73)	1.0000	12	14	3	1	1	0	0	0	3	0	1	0	0	0	2	0	1	0	0	0	3	1	1	0	0	0	3	1	1	0	0	0	2	1	1	0	0	0
IPI00419322	hepatoma-derived growth factor-related protein 2 isoform 1	S 664	100% (34.59)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00436632	Isoform 1 of Nipped-B-like protein	S 2672	100% (43.07)	1.0000	9	5	2	0	0	0	0	0	3	0	0	0	0	0	4	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00442150	CDNA FLJ16420 fis, clone BRACE3003053. (Fragment)	S 754	100% (34.83)	1.0000	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00455210	Isoform 2 of Chromodomain helicase-DNA-binding protein 4	S 1559	100% (56.47)	1.0000	5	5	2	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00456359	Isoform 1 of Ataxin-2-like protein	S 111	100% (67.76)	1.0000	8	12	1	1	0	1	0	0	1	0	1	1	0	0	1	0	0	1	0	0	1	1	1	1	0	0	1	1	1	1	0	0	1	1	1	1	0	0
IPI00456361	Isoform 2 of Ataxin-2-like protein	S 111	100% (67.76)	1.0000	8	12	1	1	0	1	0	0	1	0	1	1	0	0	1	0	0	1	0	0	1	1	1	1	0	0	1	1	1	1	0	0	1	1	1	1	0	0
IPI00456363	Isoform 3 of Ataxin-2-like protein	S 111	100% (67.76)	1.0000	8	12	1	1	0	1	0	0	1	0	1	1	0	0	1	0	0	1	0	0	1	1	1	1	0	0	1	1	1	1	0	0	1	1	1	1	0	0
IPI00456365	Isoform 4 of Ataxin-2-like protein	S 111	100% (67.76)	1.0000	8	12	1	1	0	1	0	0	1	0	1	1	0	0	1	0	0	1	0	0	1	1	1	1	0	0	1	1	1	1	0	0	1	1	1	1	0	0
IPI00456367	Isoform 5 of Ataxin-2-like protein	S 111	100% (67.76)	1.0000	8	12	1	1	0	1	0	0	1	0	1	1	0	0	1	0	0	1	0	0	1	1	1	1	0	0	1	1	1	1	0	0	1	1	1	1	0	0
IPI00456369	Isoform 6 of Ataxin-2-like protein	S 111	100% (67.76)	1.0000	8	12	1	1	0	1	0	0	1	0	1	1	0	0	1	0	0	1	0	0	1	1	1	1	0	0	1	1	1	1	0	0	1	1	1	1	0	0
IPI00480107	565 kDa protein	S 1333	100% (34.15)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00550518	Isoform 2 of Eukaryotic translation initiation factor 4E transporter	S 389	100% (67.69)	1.0000	6	6	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00555647	Splicing factor, arginine/serine-rich 10	S 264	100% (72.72)	1.0000	15	18	1	1	1	3	1	0	1	0	1	1	0	0	1	0	0	4	0	0	1	0	1	2	0	0	1	1	0	3	1	0	1	1	2	3	1	0
IPI00640598	protein kinase C binding protein 1 isoform a	S 567	100% (72.73)	1.0000	12	14	3	1	1	0	0	0	3	0	1	0	0	0	2	0	1	0	0	0	3	1	1	0	0	0	3	1	1	0	0	0	2	1	1	0	0	0
IPI00645199	Eukaryotic translation initiation factor 4E nuclear import factor 1	S 540	100% (67.69)	1.0000	6	6	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00645387	hepatoma-derived growth factor-related protein 2 isoform 2	S 668	100% (34.59)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00718938	Isoform 6 of Protein kinase C-binding protein 1	S 402	100% (72.73)	1.0000	12	14	3	1	1	0	0	0	3	0	1	0	0	0	2	0	1	0	0	0	3	1	1	0	0	0	3	1	1	0	0	0	2	1	1	0	0	0
IPI00719682	Isoform 7 of Protein kinase C-binding protein 1	S 566	100% (72.73)	1.0000	12	14	3	1	1	0	0	0	3	0	1	0	0	0	2	0	1	0	0	0	3	1	1	0	0	0	3	1	1	0	0	0	2	1	1	0	0	0
IPI00740207	RACK7 isoform j	S 542	100% (72.73)	1.0000	12	14	3	1	1	0	0	0	3	0	1	0	0	0	2	0	1	0	0	0	3	1	1	0	0	0	3	1	1	0	0	0	2	1	1	0	0	0
IPI00741204	RACK7 isoform f	S 542	100% (72.73)	1.0000	12	14	3	1	1	0	0	0	3	0	1	0	0	0	2	0	1	0	0	0	3	1	1	0	0	0	3	1	1	0	0	0	2	1	1	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 1431	100% (35.89)	1.0000	4	2	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00748579	RACK7 isoform d	S 542	100% (72.73)	1.0000	12	14	3	1	1	0	0	0	3	0	1	0	0	0	2	0	1	0	0	0	3	1	1	0	0	0	3	1	1	0	0	0	2	1	1	0	0	0
IPI00001813	CTD-binding SR-like protein rA9	S 814	100% (33.65)	1.0000	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00004233	Isoform Long of Antigen KI-67	S 584	100% (53.71)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00005184	Isoform Long of Transcription intermediary factor 1-alpha	S 1028	100% (42.37)	1.0000	1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0
IPI00006171	Isoform 2 of Nuclear factor related to kappa-B-binding protein	S 323	100% (36.89)	1.0000	4	6	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0
IPI00008918	Isoform Beta of LIM domain and actin-binding protein 1	S 686	100% (66.56)	1.0000	68	80	4	11	4	2	1	1	7	11	3	1	1	1	5	7	2	2	2	3	5	15	5	1	1	2	3	13	5	2	1	2	5	11	4	2	2	1
IPI00009286	Isoform 1 of Zinc finger protein HRX	S 1858	100% (34.07)	1.0000	3	2	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00026317	Zinc finger and BTB domain-containing protein 7A	S 337	100% (33.65)	1.0000	8	10	0	1	2	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	2	3	0	0	0	0	0	1	0	0	0	0	1	3	0	0	0
IPI00028931	Desmoglein 2, preproprotein	S 680	100% (34.08)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00176903	Isoform 1 of Polymerase I and transcript release factor	S 171	100% (33.81)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00184317	Isoform Short of Transcription intermediary factor 1-alpha	S 994	100% (42.37)	1.0000	1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00291608	Isoform 1 of PEST-containing nuclear protein	S 119	100% (67.07)	1.0000	8	9	0	0	0	0	3	0	0	0	0	0	4	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	0	4	0
IPI00294250	Ephrin type-A receptor 1 precursor	S 470	100% (33.81)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00300384	Receptor tyrosine-protein kinase erbB-2 precursor	S 1066	100% (67.11)	1.0000	4	1	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00301293	antigen identified by monoclonal antibody Ki-67	S 584	100% (53.71)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00373870	Isoform 1 of Chromodomain helicase-DNA-binding protein 3	S 79	100% (37.78)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00395444	Calmodulin regulated spectrin-associated protein 1	S 802	100% (33.81)	1.0000	2	6	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0
IPI00413144	Hypothetical protein DKFZp686B18208	S 1057	100% (33.65)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00456359	Isoform 1 of Ataxin-2-like protein	S 449	100% (33.81)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00456361	Isoform 2 of Ataxin-2-like protein	S 449	100% (33.81)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00456363	Isoform 3 of Ataxin-2-like protein	S 449	100% (33.81)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00456365	Isoform 4 of Ataxin-2-like protein	S 449	100% (33.81)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00456367	Isoform 5 of Ataxin-2-like protein	S 449	100% (33.81)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00456369	Isoform 6 of Ataxin-2-like protein	S 449	100% (33.81)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00456631	Isoform 1 of Lysine-specific histone demethylase 1	S 166	100% (67.11)	1.0000	13	16	0	4	0	0	0	0	0	3	0	0	0	0	6	0	0	0	0	0	0	5	0	0	0	0	1	3	0	0	0	0	1	6	0	0	0	0
IPI00465222	chromodomain helicase DNA binding protein 3 isoform 3	S 124	100% (37.78)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00472161	Isoform 1 of Nuclear factor related to kappa-B-binding protein	S 298	100% (36.89)	1.0000	4	6	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0
IPI00479248	Isoform 3 of Nuclear factor related to kappa-B-binding protein	S 298	100% (36.89)	1.0000	4	6	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0
IPI00514832	Tripartite motif protein 56	S 469	100% (34.11)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00550191	Protein C9orf78	S 261	100% (33.66)	1.0000	12	17	0	1	0	2	0	0	1	1	0	2	1	0	0	1	0	2	1	0	0	1	1	3	1	1	1	0	1	3	1	0	0	1	1	1	1	0
IPI00555610	313 kDa protein	S 546	100% (33.91)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00654851	erbB-2 isoform b	S 1036	100% (67.11)	1.0000	4	1	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00657687	Isoform 1 of Actin-binding protein anillin	S 54	100% (68.95)	1.0000	4	20	2	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	2	2	3	0	0	0	3	2	0	0	0	0	3	2	2	1	0	0
IPI00740502	PREDICTED: similar to ELG protein	S 25	100% (33.54)	1.0000	7	3	0	2	1	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00743594	124 kDa protein	S 54	100% (68.95)	1.0000	4	20	2	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	2	2	3	0	0	0	3	2	0	0	0	0	3	2	2	1	0	0
IPI00743778	76 kDa protein	S 303	100% (74.34)	1.0000	15	15	0	0	4	0	1	0	0	0	4	0	0	0	1	0	4	0	1	0	0	0	2	2	1	0	0	0	4	1	1	0	0	0	4	0	0	0
IPI00003394	Isoform SMN of Survival motor neuron protein	S 31	100% (72.73)	1.0000	3	8	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	4	0	0	0	0	0	1	0	0	0	0	0	2	0	0
IPI00003842	Isoform 1 of Microtubule-associated protein 2	S 285	100% (33.25)	1.0000	6	4	1	1	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00005826	HECT domain and RCC1-like domain-containing protein 2	S 2928	100% (66.30)	1.0000	5	1	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00009597	Isoform SMN-delta7 of Survival motor neuron protein	S 31	100% (72.73)	1.0000	3	8	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	4	0	0	0	0	0	1	0	0	0	0	0	2	0	0
IPI00009598	Isoform SMN-delta57 of Survival motor neuron protein	S 31	100% (72.73)	1.0000	3	8	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	4	0	0	0	0	0	1	0	0	0	0	0	2	0	0
IPI00010728	203 kDa protein	S 285	100% (33.25)	1.0000	6	4	1	1	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00013788	HIV TAT specific factor 1	S 529	100% (66.80)	1.0000	3	4	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00104050	Thyroid hormone receptor-associated protein 3	S 408	100% (67.18)	1.0000	5	6	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	1	0	0	0	1	1	0	0	0	0
IPI00107113	Isoform 1 of U3 small nucleolar RNA-associated protein 14 homolog A	S 31	100% (33.54)	1.0000	4	5	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00168849	Cdc42-interaction protein 4 long isoform	S 351	100% (66.80)	1.0000	8	5	0	1	1	0	0	0	0	1	1	0	0	0	0	2	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0
IPI00216546	Isoform 2 of Probable palmitoyltransferase ZDHHC5	S 568	100% (65.50)	1.0000	4	5	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	1	1	0	0	0
IPI00219360	Isoform SMN-delta5 of Survival motor neuron protein	S 31	100% (72.73)	1.0000	3	8	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	4	0	0	0	0	0	1	0	0	0	0	2	0	0	0
IPI00219793	Isoform 2 of Suppressor of SWI4 1 homolog	S 359	100% (65.44)	1.0000	10	14	0	1	1	1	1	0	0	1	1	0	1	0	1	1	0	0	1	0	0	1	1	1	0	0	1	1	1	1	1	0	1	1	2	1	0	1
IPI00299824	Isoform 1 of Connector enhancer of kinase suppressor of ras 1	S 314	100% (65.44)	1.0000	3	2	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00328272	Isoform 1 of Probable palmitoyltransferase ZDHHC5	S 621	100% (65.50)	1.0000	4	5	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00329590	Isoform 1 of Suppressor of SWI4 1 homolog	S 359	100% (65.44)	1.0000	10	14	0	1	1	1	1	0	0	1	1	0	1	0	1	1	0	0	1	0	0	1	1	1	0	0	1	1	1	1	1	0	1	1	2	1	0	1
IPI00411614	WD repeat and HMG-box DNA-binding protein 1	S 868	100% (66.16)	1.0000	13	12	1	3	0	0	0	0	2	2	0	0	0	0	2	2	0	1	0	0	2	3	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0
IPI00451417	Isoform 2 of Connector enhancer of kinase suppressor of ras 1	S 307	100% (65.44)	1.0000	3	2	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00472094	Isoform 3 of Microtubule-associated protein 2	S 281	100% (33.25)	1.0000	6	4	1	1	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00479124	52 kDa protein	S 359	100% (65.44)	1.0000	10	14	0	1	1	1	1	0	0	1	1	0	1	0	1	1	0	0	1	0	0	1	1	1	0	0	1	1	1	1	1	0	1	1	2	1	0	1
IPI00513835	WD repeat and HMG-box DNA binding protein 1 isoform 2	S 745	100% (66.16)	1.0000	13	12	1	3	0	0	0	0	2	2	0	0	0	0	2	2	0	1	0	0	2	3	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0
IPI00641364	PPAN-P2RY11 protein	S 359	100% (65.44)	1.0000	10	14	0	1	1	1	1	0	0	1	1	0	1	0	1	1	0	0	1	0	0	1	1	1	0	0	1	1	1	1	1	0	1	1	2	1	0	1
IPI00748353	126 kDa protein	S 868	100% (66.16)	1.0000	13	12	1	3	0	0	0	0	2	2	0	0	0	0	2	2	0	1	0	0	2	3	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0
IPI00005139	Isoform 1 of Retinoblastoma-like protein 1	S 640	100% (32.69)	1.0000	3	5	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0
IPI00011635	Isoform 2 of Bcl-2-like 13 protein	S 444	100% (32.69)	1.0000	7	5	0	0	2	0	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0
IPI00145593	Nucleolar protein with MIF4G domain 1	S 320	100% (33.45)	1.0000	2	3	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00183794	zinc finger protein 265 isoform 2	S 188	100% (65.44)	1.0000	8	13	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	1	4	0	0	0	0	3	1	0	0	0	0	2	2	0	0
IPI00289082	Tyrosine-protein phosphatase non-receptor type 12	S 673	100% (32.69)	1.0000	2	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00290652	remodeling and spacing factor 1	S 1223	100% (41.57)	1.0000	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00328293	Serine¥/arginine repetitive matrix 1	S 547	100% (32.69)	1.0000	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00328867	Isoform 2 of Proto-oncogene tyrosine-protein kinase Src	S 16	100% (68.98)	1.0000	8	15	0	0	1	0	0	0	1	1	1	0	0	1	1	0	1	0	0	1	1	1	1	0	0	1	0	1	2	1	1	1	1	1	2	1	0	0
IPI00375494	Isoform 2 of Retinoblastoma-like protein 1	S 640	100% (32.69)	1.0000	3	5	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0
IPI00427522	Isoform 1 of Peroxisome proliferator-activated receptor-binding protein	S 1207	100% (64.35)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00457284	hypothetical protein LOC23131	S 1014	100% (32.56)	1.0000	2	3	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00514411	Isoform 2 of Hepatitis B virus X-associated protein	S 1182	100% (41.57)	1.0000	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00002902	Nucleolar protein 9	S 487	100% (32.22)	1.0000	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00004273	RNA binding motif protein 25	S 683	100% (47.05)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00180404	Similar to Autoantigen protein	S 80	100% (64.40)	1.0000	2	9	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3	0	0	1	0	0	0	1	0	1	0	0	2	0	0	1	0
IPI00294653	Protein C21orf5	S 681	100% (32.36)	1.0000	2	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00384447	Sarcoma antigen NY-SAR-22 (Fragment)	S 130	100% (64.40)	1.0000	2	9	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3	0	0	1	0	0	0	1	0	1	0	0	2	0	0	1	0
IPI00385083	MSTP128	S 16	100% (64.40)	1.0000	2	9	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3	0	0	1	0	0	0	1	0	1	0	0	2	0	0	1	0
IPI00457284	hypothetical protein LOC23131	S 1009	100% (32.22)	1.0000	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00554751	Hypothetical protein DKFZp686A0568	S 80	100% (64.40)	1.0000	2	9	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3	0	0	1	0	0	0	1	0	1	0	0	2	0	0	1	0
IPI00641798	NEXN protein	S 80	100% (64.40)	1.0000	2	9	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3	0	0	1	0	0	0	1	0	1	0	0	2	0	0	1	0
IPI00644079	heterogeneous nuclear ribonucleoprotein U isoform a	S 59	100% (32.32)	1.0000	5	7	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	1	1	0	0	1	0
IPI00719818	nucleolar protein 5A	S 519	100% (69.64)	1.0000	8	7	0	0	0	0	2	0	2	0	0	0	0	0	0	4	0	0	0	0	0	0	4	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
IPI00719818	nucleolar protein 5A	S 519	100% (69.64)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00012345	Isoform SRP55-1 of Splicing factor, arginine/serine-rich 6	S 301	100% (32.47)	1.0000	16	18	0	0	0	5	0	0	0	0	1	4	0	0	0	0	1	5	0	0	0	0	1	2	0	0	0	0	3	3	0	0	0	0	3	5	0	1
IPI00018370	Isoform 2 of Supervillin	S 263	100% (32.20)	1.0000	2	5	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00019848	Isoform 1 of Host cell factor	S 1507	100% (70.98)	1.0000	5	4	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0
IPI00031960	polymerase (RNA) I polypeptide A, 194kDa	S 1429	100% (31.84)	1.0000	9	8	3	0	0	0	0	0	1	0	0	0	0	0	5	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	4	0	0	0	0	0
IPI00101942	Calmin	S 301	100% (63.80)	1.0000	8	8	0	1	1	1	0	0	0	2	1	0	0	0	0	0	1	1	0	0	1	1	1	1	0	0	1	1	1	1	0	0	0	1	0	0	0	0
IPI00152881	Shroom-related protein	S 909	100% (41.86)	1.0000	2	8	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	0	0	1	0	0	0	0	2	1	0	1	0	0
IPI00215879	Isoform SRP55-3 of Splicing factor, arginine/serine-rich 6	S 301	100% (32.47)	1.0000	16	18	0	0	0	5	0	0	0	0	1	4	0	0	0	0	1	5	0	0	0	0	1	2	0	0	0	0	3	3	0	0	0	0	3	5	0	1
IPI00219326	Isoform 2 of Host cell factor	S 1438	100% (70.98)	1.0000	5	4	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0
IPI00260388	PHD finger protein 2	S 899	100% (63.13)	1.0000	4	7	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	1	0	1	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00376493	PHD finger protein 2 isoform b	S 899	100% (63.13)	1.0000	4	7	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	1	0	1	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00425560	Isoform 1 of LAP4 protein	S 688	100% (63.73)	1.0000	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00425566	Isoform 4 of LAP4 protein	S 688	100% (63.73)	1.0000	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00477501	121 kDa protein	S 898	100% (63.13)	1.0000	4	7	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	1	0	1	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00743778	76 kDa protein	S 243	100% (72.55)	1.0000	15	8	1	1	5	0	0	0	0	1	3	0	0	0	0	1	3	0	0	0	0	0	1	0	0	0	0	0	3	1	0	0	0	0	3	0	0	0
IPI00000846	Isoform 1 of Chromodomain helicase-DNA-binding protein 4	S 1537	100% (41.57)	1.0000	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00004472	Isoform 1 of Serine/threonine-protein kinase WNK1	S 2029	100% (63.65)	1.0000	3	5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00006937	Ubiquitin-conjugating enzyme E2 J1	S 184	100% (63.58)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00012998	Isoform 1 of Cleavage and polyadenylation specificity factor 6	S 513	100% (63.11)	1.0000	2	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00024062	Band 4.1-like protein 1	S 648	100% (63.24)	1.0000	16	9	1	2	0	1	0	0	3	3	0	0	0	0	1	3	1	1	0	0	1	3	0	0	0	0	0	2	0	1	0	0	0	2	0	0	0	0
IPI00030654	Isoform 2 of Cleavage and polyadenylation specificity factor 6	S 550	100% (63.11)	1.0000	2	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00157836	IQ motif and WD repeats 1 isoform a	S 677	100% (39.16)	1.0000	3	4	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
IPI00164246	MSTP055	S 734	100% (39.16)	1.0000	3	4	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
IPI00290516	IQ motif and WD repeats 1 isoform b	S 657	100% (39.16)	1.0000	3	4	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
IPI00291916	pleckstrin homology domain interacting protein	S 1783	100% (63.21)	1.0000	16	17	2	1	0	0	1	0	4	1	0	0	1	0	3	1	0	1	1	0	3	1	0	1	1	0	3	1	0	0	1	0	3	1	0	1	1	0
IPI00375330	wings apart-like homolog	S 77	100% (69.71)	1.0000	13	15	2	2	0	1	0	0	2	1	0	0	1	0	2	1	0	1	0	0	2	2	0	2	1	0	1	1	0	1	0	0	2	2	0	0	1	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00397590	Isoform 2 of Serine/threonine-protein kinase WNK1	S 1783	100% (63.65)	1.0000	3	5	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00412441	Hypothetical protein KIAA0261	S 162	100% (69.71)	1.0000	13	15	2	2	0	1	0	0	2	1	0	0	1	0	2	1	0	1	0	0	2	2	0	2	1	0	1	1	0	1	0	0	2	2	0	0	1	0
IPI00444788	CDNA FLJ44925 fis, clone BRAMY3014613, highly similar to Homo sapiens SH3-domain binding protein	S 480	100% (63.65)	1.0000	9	7	0	2	1	0	0	0	0	2	0	0	0	0	0	2	2	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0
IPI00445123	CDNA FLJ44592 fis, clone BLADE2002310, highly similar to Homo sapiens SH3-domain binding protein 1	S 458	100% (63.65)	1.0000	9	7	0	2	1	0	0	0	0	2	0	0	0	0	0	2	2	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0
IPI00455210	Isoform 2 of Chromodomain helicase-DNA-binding protein 4	S 1565	100% (41.57)	1.0000	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00456744	Isoform 1 of SH3 domain-binding protein 1	S 544	100% (63.65)	1.0000	9	7	0	2	1	0	0	0	0	2	0	0	0	0	0	2	2	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0
IPI00552897	Isoform 1 of Mediator of DNA damage checkpoint protein 1	S 485	100% (63.78)	1.0000	2	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00641106	227 kDa protein	S 485	100% (63.78)	1.0000	2	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00644651	EPB41L1 protein	S 648	100% (63.24)	1.0000	16	9	1	2	0	1	0	0	3	3	0	0	0	0	1	3	1	1	0	0	1	3	0	0	0	0	0	2	0	1	0	0	0	2	0	0	0	0
IPI00645608	Interferon regulatory factor 2 binding protein 1 variant	S 453	100% (69.71)	1.0000	8	15	0	1	2	0	2	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	2	1	2	0	0	0	2	1	2	0	0	1	1	1	2	0
IPI00647126	Isoform 3 of Cleavage and polyadenylation specificity factor 6	S 440	100% (63.11)	1.0000	2	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00743804	67 kDa protein	S 464	100% (63.65)	1.0000	9	7	0	2	1	0	0	0	0	2	0	0	0	0	0	2	2	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0
IPI00744918	FOE	S 121	100% (69.71)	1.0000	13	15	2	2	0	1	0	0	2	1	0	0	1	0	2	1	0	1	0	0	2	2	0	2	1	0	1	1	0	1	0	0	2	2	0	0	1	0
IPI00747266	226 kDa protein	S 1783	100% (63.65)	1.0000	3	5	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00748509	251 kDa protein	S 2029	100% (63.65)	1.0000	3	5	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00018370	Isoform 2 of Supervillin	S 50	100% (31.27)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00250716	Isoform B of Bromodomain and WD-repeat domain-containing protein 1	S 1793	100% (42.01)	1.0000	4	2	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00289944	Isoform A of Bromodomain and WD-repeat domain-containing protein 1	S 1793	100% (42.01)	1.0000	4	2	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00413728	Isoform 1 of Spectrin alpha chain, brain	S 289	100% (31.43)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746752	Isoform C of Bromodomain and WD-repeat domain-containing protein 1	S 1793	100% (42.01)	1.0000	4	2	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00007334	Isoform 1 of Apoptotic chromatin condensation inducer in the nucleus	S 710	100% (36.20)	1.0000	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00008918	Isoform Beta of LIM domain and actin-binding protein 1	S 692	100% (62.01)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00009544	RalA-binding protein 1	S 92	100% (66.81)	1.0000	6	6	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0
IPI00018321	Isoform 1 of Histone-lysine N-methyltransferase, H3 lysine-9 specific 4	S 1066	100% (62.09)	1.0000	3	5	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00020124	Phosphatidylinositol 4-kinase type II	S 51	100% (36.69)	1.0000	22	21	0	1	2	4	0	0	0	0	3	3	0	0	1	0	4	4	0	0	0	1	3	4	0	0	0	0	4	3	0	0	0	0	2	4	0	0
IPI00030466	PREDICTED: hypothetical protein LOC26115 isoform 1	S 314	100% (41.72)	1.0000	2	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00215805	Exocyst complex component 2	S 526	100% (34.56)	1.0000	7	12	0	0	0	0	0	1	0	1	1	0	1	1	0	0	1	0	0	1	0	1	1	0	1	0	0	1	1	1	1	1	0	1	1	1	0	1
IPI00215948	Isoform 1 of Alpha-1 catenin	S 641	100% (62.03)	1.0000	69	54	2	18	1	1	1	0	3	16	2	0	1	0	2	18	2	1	0	1	2	14	2	0	0	1	1	12	2	1	1	1	1	13	1	1	0	1
IPI00289491	Protein CASC3	S 148	100% (62.18)	1.0000	23	17	3	3	2	0	0	0	3	3	2	1	0	0	3	3	0	0	0	0	2	3	1	1	0	0	2	2	0	1	0	0	2	2	1	0	0	0
IPI00306087	WDR79 protein	S 54	100% (62.11)	1.0000	9	7	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0
IPI00386119	Isoform 5 of Splicing factor 1	S 206	100% (62.08)	1.0000	71	84	6	9	5	3	0	0	6	8	6	2	0	0	7	10	7	2	0	0	4	11	6	3	0	0	5	12	9	1	0	0	7	12	11	3	0	0
IPI00411886	Nucleolar complex protein 2 homolog	S 49	100% (64.40)	1.0000	24	22	2	5	0	0	1	0	1	5	2	1	0	0	2	5	0	0	0	0	1	2	2	0	1	0	2	5	1	0	1	1	2	3	0	0	1	0
IPI00479262	Isoform B of Eukaryotic translation initiation factor 4 gamma 1	S 1093	100% (64.76)	1.0000	6	5	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
IPI00646493	COPA protein	S 904	100% (31.09)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00012773	Isoform Long of Metastasis-associated protein MTA1	S 522	100% (30.83)	1.0000	4	5	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00013721	Serine/threonine-protein kinase PRP4 homolog	S 580	100% (49.79)	1.0000	6	1	1	1	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00016861	Isoform 1 of General transcription factor 3C polypeptide 2	S 178	100% (30.83)	1.0000	3	4	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00030274	hypothetical protein LOC84081 isoform 1	S 248	100% (31.48)	1.0000	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00106955	Hypothetical protein LOC144097	S 308	100% (30.83)	1.0000	1	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	1	0	0	0
IPI00152007	Tumor endothelial marker 4	S 735	100% (30.83)	1.0000	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00167941	Midasin	S 5015	100% (30.83)	1.0000	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00290452	Transmembrane BAX inhibitor motif-containing protein 1	S 81	100% (30.83)	1.0000	11	10	0	1	0	2	0	0	1	0	0	2	0	0	0	1	2	2	0	0	0	1	0	1	0	0	0	0	0	2	0	0	0	1	2	3	0	0
IPI00291175	Isoform 1 of Vinculin	S 289	100% (30.83)	1.0000	3	6	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0
IPI00293845	275 kDa protein	S 2395	100% (30.83)	1.0000	2	3	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00295457	myosin phosphatase-Rho interacting protein isoform 1	S 993	100% (30.83)	1.0000	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00307162	vinculin isoform meta-VCL	S 290	100% (30.83)	1.0000	3	6	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0
IPI00375454	Isoform 2 of Telomere-associated protein RIF1	S 2369	100% (30.83)	1.0000	2	3	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00472675	Nuclear pore complex protein Nup205	S 1155	100% (30.83)	1.0000	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00477805	Isoform 1 of Telomere-associated protein RIF1	S 2393	100% (30.83)	1.0000	2	3	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00000015	Splicing factor, arginine/serine-rich 4	S 431	100% (61.26)	1.0000	10	13	0	1	3	0	0	0	0	2	3	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	2	3	0	0	0	0	2	3	0	0	0
IPI00008868	Microtubule-associated protein 1B	S 614	100% (30.64)	1.0000	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0
IPI00011675	Isoform Sp100-HMG of Nuclear autoantigen Sp-100	S 407	100% (61.66)	1.0000	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00024167	ABT1-associated protein	S 153	100% (30.75)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00186711	plectin 1 isoform 6	S 4642	100% (72.72)	1.0000	15	6	5	1	0	0	0	0	5	0	0	0	0	0	4	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1
IPI00216219	Isoform Long of Tight junction protein ZO-1	S 329	100% (61.30)	1.0000	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00374770	microtubule-associated protein 1B isoform 2	S 488	100% (30.64)	1.0000	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00398002	plectin 1 isoform 1	S 4532	100% (72.72)	1.0000	15	6	5	1	0	0	0	0	5	0	0	0	0	0	4	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1
IPI00398779	plectin 1 isoform 11	S 4505	100% (72.72)	1.0000	15	6	5	1	0	0	0	0	5	0	0	0	0	0	4	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1
IPI00411886	Nucleolar complex protein 2 homolog	S 673	100% (61.30)	1.0000	4	5	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00413734	Isoform 6 of Transcriptional regulator ATRX	S 993	100% (30.72)	1.0000	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00470461	Hypothetical protein DKFZp686L2367	S 2172	100% (61.26)	1.0000	2	3	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00005154	Structure-specific recognition protein 1	S 444	100% (65.81)	1.0000	33	22	3	6	4	0	0	0	2	4	4	0	0	0	2	4	4	0	0	0	2	2	3	0	0	0	2	2	3	0	0	0	2	3	3	0	0	0
IPI00107113	Isoform 1 of U3 small nucleolar RNA-associated protein 14 homolog A	S 405	100% (33.94)	1.0000	7	2	0	3	0	0	0	0	0	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00373870	Isoform 1 of Chromodomain helicase-DNA-binding protein 3	S 73	100% (30.97)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00465222	chromodomain helicase DNA binding protein 3 isoform 3	S 118	100% (30.97)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00552897	Isoform 1 of Mediator of DNA damage checkpoint protein 1	S 793	100% (30.61)	1.0000	5	6	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00641106	227 kDa protein	S 793	100% (30.61)	1.0000	5	6	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0
IPI00009544	RalA-binding protein 1	S 61	100% (45.78)	1.0000	4	7	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0
IPI00001780	Ubiquitin carboxyl-terminal hydrolase 16	S 415	100% (63.65)	1.0000	15	10	1	3	2	0	0	0	1	2	1	0	0	0	1	3	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0
IPI00014068	Isoform 1 of Serine/threonine-protein kinase PAK 4	S 474	100% (63.24)	1.0000	30	31	2	1	4	2	0	0	2	2	5	2	0	0	2	1	5	2	0	0	2	3	5	1	0	0	2	3	4	2	0	0	2	3	3	1	0	0
IPI00022904	50 kDa protein	S 391	100% (62.78)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00103654	Hypothetical protein	S 315	100% (62.78)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00217468	Histone H1.5	S 17	100% (65.07)	1.0000	48	59	3	1	3	7	2	0	3	2	3	6	1	0	3	1	3	7	3	0	3	1	5	7	1	0	2	2	5	9	1	2	3	2	4	9	1	2
IPI00428464	ubiquitin specific protease 16 isoform b	S 414	100% (63.65)	1.0000	15	10	1	3	2	0	0	0	1	2	1	0	0	0	1	3	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0
IPI00657953	triple functional domain	S 2455	100% (63.29)	1.0000	3	6	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	2	1	0	0	0	0	0
IPI00746062	PPP4R2 protein	S 258	100% (62.78)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005024	Isoform 1 of Myb-binding protein 1A	S 1290	100% (30.10)	1.0000	4	10	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	2
IPI00021728	Eukaryotic translation initiation factor 2 subunit 2	S 105	100% (30.10)	1.0000	7	9	0	0	0	4	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	2	2	0	0
IPI00045360	Protein capicua homolog	S 431	100% (51.31)	1.0000	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00102752	Isoform 1 of Putative RNA-binding protein 15	S 656	100% (30.10)	1.0000	3	4	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0
IPI00163866	PREDICTED: MAX dimerization protein 5 isoform 1	S 924	100% (60.00)	1.0000	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00178352	Isoform 1 of Filamin-C	S 2137	100% (30.64)	1.0000	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00183699	Isoform 2 of HMG box transcription factor BBX	S 814	100% (59.97)	1.0000	9	8	2	1	0	1	1	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	1	0	0	2	0	0	1	0	1	1	0	0	1	0
IPI00220716	Isoform 2 of Putative RNA-binding protein 15	S 656	100% (30.10)	1.0000	3	4	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0
IPI00220717	Isoform 3 of Putative RNA-binding protein 15	S 656	100% (30.10)	1.0000	3	4	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0
IPI00300222	Isoform 1 of HMG box transcription factor BBX	S 846	100% (59.97)	1.0000	9	8	2	1	0	1	1	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	1	0	0	2	0	0	1	0	1	1	0	0	1	0
IPI00386700	ladinin 1	S 123	100% (60.29)	1.0000	2	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0
IPI00413958	Isoform 2 of Filamin-C	S 2104	100% (30.64)	1.0000	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00442504	Hypothetical protein FLJ27117	S 278	100% (59.97)	1.0000	9	8	2	1	0	1	1	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	1	0	0	2	0	0	1	0	1	1	0	0	1	0
IPI00514234	Ladinin 1	S 137	100% (60.29)	1.0000	2	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0
IPI00607584	Isoform 2 of Myb-binding protein 1A	S 1290	100% (30.10)	1.0000	4	10	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	2
IPI00737498	PREDICTED: similar to MAX-interacting protein isoform 5	S 924	100% (60.00)	1.0000	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00745006	102 kDa protein	S 816	100% (59.97)	1.0000	9	8	2	1	0	1	1	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	1	0	0	2	0	0	1	0	1	1	0	0	1	0
IPI00748920	splicing coactivator subunit SRm300	S 2132	100% (60.15)	1.0000	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00038698	Retinoblastoma-associated protein RAP140	S 666	100% (29.93)	1.0000	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00045914	Msx2-interacting protein	S 1287	100% (29.93)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00292009	palladin	S 877	100% (41.06)	1.0000	10	23	0	1	1	1	0	0	2	2	1	0	0	0	1	1	0	0	0	0	1	2	1	1	0	0	2	2	3	2	0	1	2	3	2	0	0	1
IPI00306933	Isoform Short of Myosin-9B	S 1993	100% (67.76)	1.0000	2	4	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
IPI00329142	Glutamate-rich protein 1	S 254	100% (29.96)	1.0000	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0
IPI00336047	Isoform Long of Myosin-9B	S 1993	100% (67.76)	1.0000	2	4	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
IPI00020124	Phosphatidylinositol 4-kinase type Ⅱ	S 47	100% (51.23)	1.0000	31	29	0	1	4	6	0	0	0	0	4	5	0	0	1	0	5	5	0	0	0	1	4	6	0	0	0	0	4	5	0	0	0	0	3	6	0	0
IPI00024167	ABT1-associated protein	S 198	100% (64.28)	1.0000	6	7	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0
IPI00243221	Nardilysin	S 94	100% (29.79)	1.0000	2	6	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00383597	Isoform A of Anion exchange protein 2	S 132	100% (64.24)	1.0000	4	4	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00477139	Isoform B1 of Anion exchange protein 2	S 118	100% (64.24)	1.0000	4	4	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00747052	Isoform 2 of Nardilysin precursor	S 94	100% (29.79)	1.0000	2	6	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00386119	Isoform 5 of Splicing factor 1	S 204	100% (59.39)	1.0000	77	88	6	9	4	4	0	0	6	8	7	3	0	0	8	10	9	3	0	0	4	11	7	3	0	0	5	12	10	1	0	0	7	12	12	4	0	0
IPI00006103	CD2 antigen cytoplasmic tail-binding protein 2	S 49	100% (62.26)	1.0000	10	15	1	0	1	1	0	0	1	0	1	2	0	0	0	0	1	2	0	0	1	1	2	3	0	0	0	0	1	2	1	0	0	0	2	1	1	0
IPI00015602	Mitochondrial precursor proteins import receptor	S 91	100% (59.30)	1.0000	38	31	1	1	8	1	0	0	0	2	10	1	0	0	2	3	7	1	1	0	0	3	4	1	1	0	0	4	7	1	1	1	2	3	2	1	0	0
IPI00164528	Alpha-1-syntrophin	S 189	100% (63.65)	1.0000	2	6	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0
IPI00165261	Sec1 family domain-containing protein 1	S 302	100% (59.22)	1.0000	8	11	0	0	3	0	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	2	3	0	0	0	0	0	2	0	0	0	0	1	3	0	0	0
IPI00304589	182 kDa tankyrase 1-binding protein	S 893	100% (59.40)	1.0000	15	21	3	1	0	0	0	0	4	1	0	0	0	0	5	1	0	0	0	0	5	1	0	0	0	0	6	1	0	1	0	0	5	1	1	0	0	0
IPI00410127	Transforming, acidic coiled-coil containing protein 2	S 2048	100% (31.42)	1.0000	3	6	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0
IPI00643465	transforming, acidic coiled-coil containing protein 2 isoform a	S 2321	100% (31.42)	1.0000	3	6	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0
IPI00413734	Isoform 6 of Transcriptional regulator ATRX	S 1284	100% (32.83)	1.0000	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00425404	Isoform 1 of Kinesin family member 21A	S 1212	100% (29.52)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00425405	Isoform 2 of Kinesin family member 21A	S 1199	100% (29.52)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00425407	Isoform 3 of Kinesin family member 21A	S 1213	100% (29.52)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00425409	Isoform 4 of Kinesin family member 21A	S 1212	100% (29.52)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00009544	RalA-binding protein 1	S 91	100% (63.29)	1.0000	6	6	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	3	0	0	0	0	0
IPI00173461	Junctophilin-1	S 465	100% (52.86)	1.0000	4	4	0	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00412415	Isoform 1 of Bromodomain adjacent to zinc finger domain protein 1A	S 1413	100% (58.66)	1.0000	14	21	4	1	0	1	1	0	3	1	0	0	1	0	2	0	0	0	0	0	2	0	1	1	1	0	3	1	1	1	2	1	3	0	1	1	1	1
IPI00479143	Pericentrin	S 2214	100% (63.65)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00743026	179 kDa protein	S 1414	100% (58.66)	1.0000	14	21	4	1	0	1	1	0	3	1	0	0	1	0	2	0	0	0	0	0	2	0	1	1	1	0	3	1	1	1	2	1	3	0	1	1	1	1
IPI00015973	Band 4.1-like protein 2	S 715	100% (29.32)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00064212	KIAA1802 protein (Fragment)	S 223	100% (29.32)	1.0000	13	19	2	2	1	0	0	0	2	2	1	0	0	0	1	1	0	1	0	0	2	2	1	1	0	0	2	3	1	1	0	0	2	2	1	1	0	0
IPI00237884	Isoform 1 of A-kinase anchor protein 12	S 1330	100% (29.32)	1.0000	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00239406	Isoform 2 of Nesprin-2	S 2781	100% (29.32)	1.0000	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00292753	GTPase activating protein and VPS9 domains 1	S 941	100% (29.32)	1.0000	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00414497	Chromosome 13 open reading frame 8	S 214	100% (29.32)	1.0000	13	19	2	2	1	0	0	0	2	2	1	0	0	0	1	1	0	1	0	0	2	2	1	1	0	0	2	3	1	1	0	0	2	2	1	1	0	0
IPI00456887	Scaffold attachment factor A2	S 228	100% (29.27)	1.0000	36	33	2	7	1	0	0	2	1	8	0	0	0	2	2	9	1	0	0	1	1	9	0	0	0	1	1	11	1	1	0	2	1	3	1	0	0	1
IPI00741728	PREDICTED: similar to heterogeneous nuclear ribonucleoprotein U	S 385	100% (29.27)	1.0000	36	33	2	7	1	0	0	2	1	8	0	0	0	2	2	9	1	0	0	1	1	9	0	0	0	1	1	11	1	1	0	2	1	3	1	0	0	1

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00742770	KIAA1521 protein	S 753	100% (29.32)	1.0000	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00027280	Isoform Beta-2 of DNA topoisomerase 2-beta	S 1522	100% (38.03)	1.0000	6	3	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00217709	Isoform Beta-1 of DNA topoisomerase 2-beta	S 1517	100% (38.03)	1.0000	6	3	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00221325	Ran-binding protein 2	S 2510	100% (58.43)	1.0000	5	6	2	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	0
IPI00401282	PREDICTED: hypothetical protein LOC23307	S 1232	100% (61.65)	1.0000	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00739371	PREDICTED: similar to Golgi autoantigen, golgin subfamily A member 6	S 1237	100% (61.65)	1.0000	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00002966	Heat shock 70 kDa protein 4	S 546	100% (61.30)	1.0000	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00024970	Inner centromere protein	S 306	100% (61.30)	1.0000	4	10	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	1	2	1	0	0	0
IPI00030466	PREDICTED: hypothetical protein LOC26115 isoform 1	S 1455	100% (61.30)	1.0000	2	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00063605	jub, ajuba homolog isoform 1	S 119	100% (29.13)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00170594	transcription factor ELYS	S 1550	100% (61.30)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00217957	ELYS transcription factor-like protein TMBS62	S 1577	100% (61.30)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00465128	Isoform 1 of Large proline-rich protein BAT3	S 981	100% (61.30)	1.0000	30	32	5	4	1	1	0	0	5	4	1	1	0	0	3	3	1	1	0	0	5	4	3	0	0	0	4	3	1	0	0	1	5	4	2	0	0	0
IPI00513728	HLA-B associated transcript 3	S 1003	100% (61.30)	1.0000	30	32	5	4	1	1	0	0	5	4	1	1	0	0	3	3	1	1	0	0	5	4	3	0	0	0	4	3	1	0	0	1	5	4	2	0	0	0
IPI00640922	Isoform 2 of Large proline-rich protein BAT3	S 967	100% (61.30)	1.0000	30	32	5	4	1	1	0	0	5	4	1	1	0	0	3	3	1	1	0	0	5	4	3	0	0	0	4	3	1	0	0	1	5	4	2	0	0	0
IPI00759472	inner centromere protein antigens 135/155kDa isoform 2	S 306	100% (61.30)	1.0000	4	10	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	1	2	1	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 765	100% (62.93)	1.0000	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 770	100% (62.93)	1.0000	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00008708	Ribosomal L1 domain-containing protein 1	S 361	100% (28.96)	1.0000	21	25	2	1	3	1	0	0	2	2	3	1	0	0	2	0	3	1	0	0	1	2	5	1	0	0	1	2	4	1	0	1	1	2	3	0	0	1
IPI00290652	remodeling and spacing factor 1	S 1221	100% (33.81)	1.0000	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00297859	Isoform 1 of Myeloid/lymphoid or mixed-lineage leukemia protein 2	S 4574	100% (28.96)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00377244	Isoform 2 of Myeloid/lymphoid or mixed-lineage leukemia protein 2	S 4269	100% (28.96)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00377245	Isoform 3 of Myeloid/lymphoid or mixed-lineage leukemia protein 2	S 4577	100% (28.96)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00442210	Isoform 1 of Abl interactor 2	S 227	100% (28.96)	1.0000	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0
IPI00456750	Niban-like protein	S 683	100% (46.62)	1.0000	3	4	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00480107	565 kDa protein	S 4579	100% (28.96)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514411	Isoform 2 of Hepatitis B virus X-associated protein	S 1180	100% (33.81)	1.0000	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00647286	hypothetical protein LOC64855	S 696	100% (46.62)	1.0000	3	4	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00743778	76 kDa protein	S 244	100% (64.84)	1.0000	15	7	1	1	5	0	0	0	0	1	3	0	0	0	0	1	3	0	0	0	0	0	1	0	0	0	0	0	3	1	0	0	0	2	0	0	0	0
IPI00291638	RB1-inducible coiled-coil protein 1	S 243	100% (57.71)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00292059	Nuclear pore complex protein Nup153	S 209	100% (57.71)	1.0000	2	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00410127	Transforming, acidic coiled-coil containing protein 2	S 2044	100% (30.10)	1.0000	3	6	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0
IPI00480157	154 kDa protein	S 209	100% (57.71)	1.0000	2	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00514528	nucleoporin 153kDa	S 209	100% (57.71)	1.0000	2	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00643465	transforming, acidic coiled-coil containing protein 2 isoform a	S 2317	100% (30.10)	1.0000	3	6	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0
IPI00175146	hypothetical protein LOC196441	S 655	100% (63.65)	1.0000	4	6	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00304589	182 kDa tankyrase 1-binding protein	S 672	100% (60.30)	1.0000	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00304589	182 kDa tankyrase 1-binding protein	S 872	100% (62.26)	1.0000	6	7	2	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0
IPI00008918	Isoform Beta of LIM domain and actin-binding protein 1	S 225	100% (65.81)	1.0000	17	24	1	4	1	1	0	0	1	3	1	1	0	0	1	2	0	1	0	0	3	3	2	0	0	0	2	3	1	1	0	0	2	4	1	0	0	2
IPI00028888	Isoform 1 of Heterogeneous nuclear ribonucleoprotein D0	S 190	100% (28.64)	1.0000	2	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00220684	Isoform 3 of Heterogeneous nuclear ribonucleoprotein D0	S 190	100% (28.64)	1.0000	2	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0
IPI00180625	KIAA0284 protein	S 918	100% (57.10)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00004472	Isoform 1 of Serine/threonine-protein kinase WNK1	S 2027	100% (57.10)	1.0000	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00022790	Microfibrillar-associated protein 1	S 52	100% (31.95)	1.0000	8	10	0	1	3	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	0	2	3	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0
IPI00291783	Gem-associated protein 5	S 778	100% (28.51)	1.0000	4	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00397590	Isoform 2 of Serine/threonine-protein kinase WNK1	S 1781	100% (57.10)	1.0000	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00747266	226 kDa protein	S 1781	100% (57.10)	1.0000	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00748509	251 kDa protein	S 2027	100% (57.10)	1.0000	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00431127	Isoform 1 of Cyclin-K	S 324	100% (52.86)	1.0000	4	6	0	1	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00008529	60S acidic ribosomal protein P2	S 86	100% (59.80)	1.0000	2	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00744288	Isoform 5 of C-jun-amino-terminal kinase-interacting protein 4	S 183	100% (59.80)	1.0000	11	9	3	0	0	0	0	0	6	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	3	1	0	0	0	0	3	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 2100	100% (56.71)	1.0000	3	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00063387	28 kDa protein	S 180	100% (56.53)	1.0000	9	6	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3	0	0	0
IPI00445401	Isoform 2 of HECT, UBA and WWE domain-containing protein 1	S 3903	100% (63.56)	1.0000	5	7	1	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	5	0	0	0	0	0	0
IPI00456919	Isoform 1 of HECT, UBA and WWE domain-containing protein 1	S 3919	100% (63.56)	1.0000	5	7	1	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	5	0	0	0	0	0	0
IPI00643153	Isoform 3 of HECT, UBA and WWE domain-containing protein 1	S 3910	100% (63.56)	1.0000	5	7	1	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	5	0	0	0	0	0	0
IPI00011635	Isoform 2 of Bcl-2-like 13 protein	S 420	100% (56.47)	1.0000	3	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00032150	Isoform 1 of Phosphatidate cytidylyltransferase 2	S 41	100% (56.47)	1.0000	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00303343	Serine arginine-rich pre-mRNA splicing factor SR-A1	S 734	100% (36.05)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00386170	Sperm specific antigen 2	S 92	100% (62.41)	1.0000	3	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00411886	Nucleolar complex protein 2 homolog	S 672	100% (56.47)	1.0000	5	5	0	2	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00477535	DNA-repair protein complementing XP-G cells	S 341	100% (56.47)	1.0000	5	6	1	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0
IPI00646058	103 kDa protein	S 383	100% (56.47)	1.0000	8	13	1	1	0	0	0	0	1	1	0	0	0	0	2	2	0	0	0	0	2	2	1	0	0	0	1	2	0	0	0	0	1	3	1	0	0	0
IPI00719818	nucleolar protein 5A	S 520	100% (61.26)	1.0000	60	61	4	4	10	2	0	0	4	4	10	2	0	0	2	6	12	0	0	0	1	4	14	2	0	0	2	6	10	4	0	0	2	6	10	0	0	0
IPI00006213	Pericentriol material 1	S 65	100% (58.92)	1.0000	8	5	3	0	1	0	0	0	1	1	0	0	0	0	1	0	1	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00465087	Ubiquitin carboxyl-terminal hydrolase BAP1	S 292	100% (56.34)	1.0000	1	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR															
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00001813	CTD-binding SR-like protein rA9	S 1202	100% (28.11)	1.0000	1	6	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	2	0	0	0	0	1	0	0	0	0
IPI00395337	Isoform 1 of Pre-mRNA 3'-end-processing factor FIP1	S 500	100% (56.05)	1.0000	18	21	0	0	2	2	0	0	1	2	2	1	0	0	1	2	2	1	2	0	0	2	4	2	0	0	1	3	2	0	0	0	0	2	3	1	1	0
IPI00442150	CDNA FLJ16420 fis, clone BRACE3003053. (Fragment)	S 461	100% (31.27)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00743778	76 kDa protein	S 241	100% (63.28)	1.0000	3	4	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0
IPI00024062	Band 4.1-like protein 1	S 650	100% (55.92)	1.0000	22	17	2	3	0	1	0	0	2	4	0	1	0	0	3	4	0	1	1	0	2	5	0	0	0	0	2	3	0	1	0	0	2	2	0	0	0	0
IPI00644651	EPB41L1 protein	S 650	100% (55.92)	1.0000	22	17	2	3	0	1	0	0	2	4	0	1	0	0	3	4	0	1	1	0	2	5	0	0	0	0	2	3	0	1	0	0	2	2	0	0	0	0
IPI00002579	RB-binding protein	S 1593	100% (27.96)	1.0000	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00167909	EML3 protein	S 176	100% (27.96)	1.0000	5	2	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0
IPI00216540	Isoform 4 of Protein kinase C-binding protein 1	S 30	100% (27.96)	1.0000	6	5	2	0	1	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0
IPI00291922	Proteasome subunit alpha type 5	S 16	100% (27.96)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00418316	RACK7 isoform e	S 426	100% (27.96)	1.0000	6	5	2	0	1	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00640598	protein kinase C binding protein 1 isoform a	S 426	100% (27.96)	1.0000	6	5	2	0	1	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0
IPI00718938	Isoform 6 of Protein kinase C-binding protein 1	S 261	100% (27.96)	1.0000	6	5	2	0	1	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0
IPI00719682	Isoform 7 of Protein kinase C-binding protein 1	S 425	100% (27.96)	1.0000	6	5	2	0	1	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0
IPI00740207	RACK7 isoform j	S 401	100% (27.96)	1.0000	6	5	2	0	1	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0
IPI00741204	RACK7 isoform f	S 401	100% (27.96)	1.0000	6	5	2	0	1	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0
IPI00748579	RACK7 isoform d	S 401	100% (27.96)	1.0000	6	5	2	0	1	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 1094	100% (58.77)	1.0000	18	23	5	1	1	0	0	0	3	2	0	0	0	0	4	2	0	0	0	0	6	2	0	0	0	0	5	2	0	0	0	0	7	1	0	0	0	0
IPI00216219	Isoform Long of Tight junction protein ZO-1	S 175	100% (40.10)	1.0000	5	5	2	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2	1	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 1099	100% (58.77)	1.0000	18	23	5	1	1	0	0	0	3	2	0	0	0	0	4	2	0	0	0	0	6	2	0	0	0	0	5	2	0	0	0	0	7	1	0	0	0	0
IPI00442150	CDNA FLJ16420 fis, clone BRACE3003053. (Fragment)	S 459	100% (30.85)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00001632	hypothetical protein LOC57648	S 669	100% (58.77)	1.0000	22	15	4	4	1	0	0	0	3	2	1	0	0	0	3	3	1	0	0	0	1	1	1	0	0	0	2	3	1	0	0	0	3	2	1	0	0	0
IPI00010586	TATA element modulatory factor	S 272	100% (48.87)	1.0000	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00017030	Isoform 1 of Myosin-18A	S 1063	100% (48.87)	1.0000	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00166555	Chromosome 13 open reading frame 10	S 128	100% (58.66)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00329545	Chromosome 13 open reading frame 10	S 128	100% (58.66)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00645725	108 kDa protein	S 680	100% (58.77)	1.0000	22	15	4	4	1	0	0	0	3	2	1	0	0	0	3	3	1	0	0	0	1	1	1	0	0	0	2	3	1	0	0	0	3	2	1	0	0	0
IPI00000846	Isoform 1 of Chromodomain helicase-DNA-binding protein 4	S 1535	100% (28.07)	1.0000	7	7	2	0	0	0	0	0	1	0	0	0	0	0	3	1	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0
IPI00455210	Isoform 2 of Chromodomain helicase-DNA-binding protein 4	S 1563	100% (28.07)	1.0000	7	7	2	0	0	0	0	0	1	0	0	0	0	0	3	1	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0
IPI00014298	Periodic tryptophan protein 1 homolog	S 50	100% (60.36)	1.0000	11	14	0	0	5	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	5	0	0	0	0	0	5	0	0	0	0	4	0	0	0	0
IPI00385054	PWP1 protein	S 50	100% (60.36)	1.0000	11	14	0	0	5	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	5	0	0	0	0	0	5	0	0	0	0	4	0	0	0	0
IPI00477949	zinc finger protein 262	S 1547	100% (44.36)	1.0000	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00513965	Zinc finger protein 262	S 1402	100% (44.36)	1.0000	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00023532	Hypothetical protein DKFZp564A2416	S 455	100% (27.68)	1.0000	3	4	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0
IPI00166044	Isoform 1 of Regulatory associated protein of mTOR	S 877	100% (63.65)	1.0000	9	7	1	1	1	0	0	0	1	1	1	0	0	0	2	1	0	0	0	0	0	1	0	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0
IPI00297723	RNA-binding protein 6	S 360	100% (55.37)	1.0000	6	7	1	1	1	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	2	2	0	0	0	0
IPI00395337	Isoform 1 of Pre-mRNA 3'-end-processing factor FIP1	S 554	100% (27.65)	1.0000	3	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 1678	100% (55.28)	1.0000	2	6	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0
IPI00333215	Isoform 1 of Transcription elongation factor A protein 1	S 100	100% (55.18)	1.0000	19	25	1	0	0	4	1	0	0	1	1	4	1	0	1	0	0	3	2	0	0	0	2	6	2	0	0	0	2	5	1	0	0	0	2	4	1	0
IPI00396378	Isoform B1 of Heterogeneous nuclear ribonucleoproteins A2/B1	S 189	100% (55.31)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 1683	100% (55.28)	1.0000	2	6	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0
IPI00107113	Isoform 1 of U3 small nucleolar RNA-associated protein 14 homolog A	S 407	100% (27.98)	1.0000	2	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00607645	Sin3 histone deacetylase corepressor complex component SDS3	S 45	100% (40.57)	1.0000	6	4	0	0	0	2	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00413492	calpastatin isoform b	S 351	100% (54.89)	1.0000	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00465148	CAST protein	S 300	100% (54.89)	1.0000	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00328929	Conserved nuclear protein NHN1	S 83	100% (54.76)	1.0000	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00024062	Band 4.1-like protein 1	S 678	100% (54.67)	1.0000	6	11	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	1	1	1	0	1	1	0	1	0	0	1	1	0	1	0	0
IPI00029601	Src substrate cortactin	S 406	100% (52.86)	1.0000	20	29	2	2	1	0	0	0	2	1	1	0	1	0	2	3	2	2	1	0	3	1	1	1	2	0	2	3	2	1	3	0	1	2	2	1	3	1
IPI00062884	cortactin isoform b	S 368	100% (52.86)	1.0000	20	29	2	2	1	0	0	0	2	1	1	0	1	0	2	3	2	2	1	0	3	1	1	1	2	0	2	3	2	1	3	0	1	2	2	1	3	1
IPI00644651	EPB41L1 protein	S 678	100% (54.67)	1.0000	6	11	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	1	1	1	0	1	1	0	1	0	0	1	1	0	1	0	0
IPI00746806	CTTN protein	S 368	100% (52.86)	1.0000	20	29	2	2	1	0	0	0	2	1	1	0	1	0	2	3	2	2	1	0	3	1	1	1	2	0	2	3	2	1	3	0	1	2	2	1	3	1
IPI00008708	Ribosomal L1 domain-containing protein 1	S 427	100% (45.03)	1.0000	13	15	0	1	1	1	0	0	1	2	1	1	0	0	2	2	0	1	0	0	1	2	2	0	0	0	1	2	1	0	0	1	2	2	1	0	0	0
IPI00218566	Isoform 1A of Mitogen-activated protein kinase kinase kinase 7	S 412	100% (60.29)	1.0000	14	14	0	0	2	0	2	0	0	1	2	0	2	0	1	1	1	0	2	0	0	1	1	0	2	0	0	1	2	0	1	0	0	1	2	1	2	0
IPI00295738	Isoform 1B of Mitogen-activated protein kinase kinase kinase 7	S 439	100% (60.29)	1.0000	14	14	0	0	2	0	2	0	0	1	2	0	2	0	1	1	1	0	2	0	0	1	1	0	2	0	0	1	2	0	1	0	0	1	2	1	2	0
IPI00641808	Hypothetical protein DKFZp586F0420	S 93	100% (60.29)	1.0000	14	14	0	0	2	0	2	0	0	1	2	0	2	0	1	1	1	0	2	0	0	1	1	0	2	0	0	1	2	0	1	0	0	1	2	1	2	0
IPI00002286	Ankyrin repeat domain-containing protein 11	S 835	100% (27.16)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022184	Isoform 3 of Pumilio homolog 2	S 182	100% (27.16)	1.0000	4	2	1	0	0	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00032150	Isoform 1 of Phosphatidate cytidylyltransferase 2	S 21	100% (27.16)	1.0000	21	17	4	0	1	1	0	0	4	2	2	1	0	0	3	2	1	0	0	0	3	0	1	0	0	0	4	1	1	1	0	1	2	1	1	1	0	0
IPI00065276	CDNA FLJ32841 fis, clone TESTI2003325	S 594	100% (27.16)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00152007	Tumor endothelial marker 4	S 420	100% (27.16)	1.0000	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00184330	DNA replication licensing factor MCM2	S 139	100% (27.16)	1.0000	26	28	1	6	1	1	0	0	1	5	0	1	1	0	3	4	0	1	1	0	1	6	1	1	0	0	4	4	2	1	1	0	1	6	0	0	0	0
IPI00218136	137 kDa protein	S 155	100% (27.16)	1.0000	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00304885	Centromere protein C 1	S 710	100% (31.96)	1.0000	5	6	1	0	0	0	0	0	1	2	0	0	0	0	1	0	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0
IPI00306840	Sphingosine-1-phosphate phosphatase 1	S 112	100% (27.16)	1.0000	14	15	0	2	1	2	0	0	1	1	0	2	0	0	1	2	1	1	0	0	1	2	0	0	0	0	1	1	2	2	0	0	1	2	2	1	0	0
IPI00332071	alveolar soft part sarcoma chromosome region, candidate 1	S 500	100% (27.16)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00398749	Isoform 1 of Pumilio homolog 2	S 182	100% (27.16)	1.0000	4	2	1	0	0	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00412676	CDNA FLJ43339 fis, clone NT2RI3007291	S 364	100% (27.16)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00515042	cingulin	S 155	100% (27.16)	1.0000	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00554761	Nonhistone chromosomal protein HMG-14	S 98	100% (57.29)	1.0000	2	3	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00744988	ankyrin repeat domain 11	S 835	100% (27.16)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00012199	Hypothetical protein FLJ22321	S 69	100% (54.08)	1.0000	3	4	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0
IPI00293845	275 kDa protein	S 1581	100% (27.05)	1.0000	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00375454	Isoform 2 of Telomere-associated protein RIF1	S 1581	100% (27.05)	1.0000	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00477805	Isoform 1 of Telomere-associated protein RIF1	S 1579	100% (27.05)	1.0000	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00013721	Serine/threonine-protein kinase PRP4 homolog	S 32	100% (49.79)	1.0000	7	8	2	1	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0
IPI00021518	Isoform 1 of DNA damage-binding protein 2	S 24	100% (27.02)	1.0000	4	7	0	0	0	1	0	0	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	2	0	1	1	0	0
IPI00446284	Isoform D3 of DNA damage-binding protein 2	S 24	100% (27.02)	1.0000	4	7	0	0	0	1	0	0	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	2	0	1	1	0	0
IPI00549348	Isoform D1 of DNA damage-binding protein 2	S 24	100% (27.02)	1.0000	4	7	0	0	0	1	0	0	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	2	0	1	1	0	0
IPI00607674	Isoform D2 of DNA damage-binding protein 2	S 24	100% (27.02)	1.0000	4	7	0	0	0	1	0	0	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	2	0	1	1	0	0
IPI00607727	Isoform D4 of DNA damage-binding protein 2	S 24	100% (27.02)	1.0000	4	7	0	0	0	1	0	0	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	2	0	1	1	0	0
IPI00744288	Isoform 5 of C-jun-amino-terminal kinase-interacting protein 4	S 185	100% (57.10)	1.0000	5	6	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00022145	Nuclear ubiquitous casein and cyclin-dependent kinases substrate	S 19	100% (56.94)	1.0000	38	35	1	0	0	9	1	1	1	0	1	6	0	3	1	0	0	9	3	2	0	0	1	7	1	1	0	0	0	7	1	3	1	0	2	9	0	2
IPI00297178	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 16	S 160	100% (26.93)	1.0000	1	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00552073	Putative pre-mRNA-splicing factor ATP-dependent RNA helicase DHX16	S 160	100% (26.93)	1.0000	1	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641132	120 kDa protein	S 164	100% (26.93)	1.0000	1	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00438170	Isoform 1 of Sorting nexin-12	S 14	100% (27.70)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00438171	Isoform 2 of Sorting nexin-12	S 14	100% (27.70)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00743822	20 kDa protein	S 14	100% (27.70)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	S 848	100% (53.53)	1.0000	7	2	2	0	0	0	0	0	4	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00164672	mRNA decapping enzyme 1A	S 545	100% (26.82)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218323	Tumor protein D52	S 136	100% (53.53)	1.0000	5	4	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0
IPI00550523	hypothetical protein LOC25923	S 22	100% (53.58)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00619958	tumor protein D52 isoform 1	S 176	100% (53.53)	1.0000	5	4	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0
IPI00456970	Isoform 1 of Cell division cycle 2-like protein kinase 5	S 340	100% (54.01)	1.0000	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00456970	Isoform 1 of Cell division cycle 2-like protein kinase 5	S 342	100% (54.01)	1.0000	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00604399	Isoform 2 of Fanconi anemia group D2 protein	S 1412	100% (61.30)	1.0000	4	4	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00006298	Isoform 1 of Peptidyl-prolyl cis-trans isomerase G	S 397	100% (26.70)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00012340	Splicing factor, arginine/serine-rich 9	S 211	100% (56.34)	1.0000	10	9	0	0	1	1	1	1	0	0	0	0	3	1	0	0	1	0	0	1	0	0	0	1	2	0	0	0	0	0	2	1	0	0	0	0	3	0
IPI00021076	Isoform Long of Plakophilin-4	S 314	100% (56.34)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00025512	Heat-shock protein beta-1	S 15	100% (53.40)	1.0000	1	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1	1
IPI00182757	Isoform 1 of Protein KIAA1967	S 680	100% (56.34)	1.0000	24	15	4	5	0	0	0	0	3	5	0	0	0	0	3	4	0	0	0	0	1	4	0	0	0	0	1	3	0	0	0	0	3	3	0	0	0	0
IPI00302917	AT rich interactive domain 4B isoform 2	S 704	100% (56.34)	1.0000	5	2	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
IPI00328828	AT rich interactive domain 4B isoform 1	S 790	100% (56.34)	1.0000	5	2	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
IPI00334400	Isoform Short of Plakophilin-4	S 314	100% (56.34)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00386170	Sperm specific antigen 2	S 739	100% (56.34)	1.0000	9	10	1	2	0	0	0	0	2	1	0	0	0	0	1	2	0	0	0	0	2	1	0	0	0	0	2	2	1	0	0	0	1	1	0	0	0	0
IPI00477401	F-box/WD-repeat protein 9	S 18	100% (56.57)	1.0000	3	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00747119	plakophilin 4 isoform b	S 314	100% (56.34)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00152881	Shroom-related protein	S 442	100% (53.42)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00008422	Isoform 2 of SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A co	S 57	100% (26.64)	1.0000	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220119	Isoform 1 of SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A co	S 57	100% (26.64)	1.0000	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413734	Isoform 6 of Transcriptional regulator ATRX	S 1280	100% (27.16)	1.0000	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00658152	tensin-like SH2 domain containing 1	S 155	100% (40.73)	1.0000	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00759836	Tensin	S 257	100% (40.73)	1.0000	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00301058	Vasodilator-stimulated phosphoprotein	S 238	100% (53.23)	1.0000	3	5	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	0	0	1	0	0
IPI00293451	Tight junction protein ZO-3	S 164	100% (53.14)	1.0000	8	1	1	2	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00744036	tight junction protein 3	S 183	100% (53.14)	1.0000	8	1	1	2	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00008422	Isoform 2 of SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A co	S 152	100% (26.44)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00028359	Hypothetical protein DKFZp761F0123	S 362	100% (52.86)	1.0000	5	6	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0
IPI00219793	Isoform 2 of Suppressor of SWI4 1 homolog	S 368	100% (52.86)	1.0000	5	4	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0
IPI00220119	Isoform 1 of SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A co	S 152	100% (26.44)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00329590	Isoform 1 of Suppressor of SWI4 1 homolog	S 368	100% (52.86)	1.0000	5	4	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0
IPI00479124	52 kDa protein	S 368	100% (52.86)	1.0000	5	4	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0
IPI00641364	PPAN-P2RY11 protein	S 368	100% (52.86)	1.0000	5	4	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0
IPI00479926	Isoform 2 of Ribosomal protein S6 kinase alpha-4	S 347	100% (52.86)	1.0000	3	5	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
IPI00619921	Isoform 4 of Death-inducer obliterator 1	S 809	100% (52.86)	1.0000	8	8	1	1	0	0	0	0	2	0	0	0	0	0	4	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	3	1	0	0	0	0
IPI00181617	RNA-binding protein 34	S 28	100% (52.74)	1.0000	3	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	S 1025	100% (45.49)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00002286	Ankyrin repeat domain-containing protein 11	S 277	100% (26.31)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00009326	65 kDa Yes-associated protein	S 61	100% (26.31)	1.0000	17	16	1	1	1	1	0	0	1	2	2	1	0	0	2	2	2	1	0	0	2	2	2	1	0	0	1	1	1	1	0	0	1	2	2	0	0	0
IPI00010471	Plastin-2	S 4	100% (26.31)	1.0000	4	16	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	2	4	0	0	1	0	1	2	1	0	1	0	1	2	0	0	1
IPI00022624	Retinoic acid-induced protein 3	S 345	100% (41.72)	1.0000	27	29	3	3	3	1	0	0	3	2	1	2	1	0	2	2	2	1	1	0	3	4	3	2	1	0	2	3	2	1	1	0	2	3	0	1	1	0
IPI00022970	Nucleoprotein TPR	S 1186	100% (26.31)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00024062	Band 4.1-like protein 1	S 784	100% (26.31)	1.0000	5	9	0	0	0	0	1	0	1	2	0	0	0	0	0	1	0	0	0	0	1	2	0	0	1	0	0	1	0	0	1	0	1	2	0	0	0	0
IPI00045914	Msx2-interacting protein	S 727	100% (26.31)	1.0000	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00216919	YAP1 protein	S 61	100% (26.31)	1.0000	17	16	1	1	1	1	0	0	1	2	2	1	0	0	2	2	2	1	0	0	2	2	2	1	0	0	1	1	1	1	0	0	1	2	2	0	0	0
IPI00297900	Probable ATP-dependent RNA helicase DDX10	S 539	100% (26.31)	1.0000	2	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00306382	Isoform 1 of Secretory carrier-associated membrane protein 3	S 76	100% (26.31)	1.0000	3	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00394829	hypothetical protein LOC286077	S 925	100% (26.31)	1.0000	5	5	1	1	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00419100	Isoform 1 of FYVE, RhoGEF and PH domain-containing protein 6	S 605	100% (26.31)	1.0000	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00453116	secretory carrier membrane protein 3 isoform 1	S 76	100% (26.31)	1.0000	3	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00479205	38 kDa protein	S 76	100% (26.31)	1.0000	3	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00555610	313 kDa protein	S 323	100% (26.31)	1.0000	5	5	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00644651	EPB41L1 protein	S 783	100% (26.31)	1.0000	5	9	0	0	0	0	1	0	1	2	0	0	0	0	0	1	0	0	0	0	1	2	0	0	1	0	0	1	0	0	1	0	1	2	0	0	0	0
IPI00646377	Isoform 1 of Eukaryotic translation initiation factor 4 gamma 3	S 232	100% (26.31)	1.0000	2	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00744988	ankyrin repeat domain 11	S 277	100% (26.31)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00745518	Microtubule-associated protein 4 isoform 1 variant (Fragment)	S 538	100% (26.31)	1.0000	10	11	2	1	0	0	0	0	2	2	0	0	0	0	1	2	0	0	0	0	2	1	0	0	0	0	1	3	0	0	0	0	2	2	0	0	0	0
IPI00005277	Cell cycle checkpoint control protein RAD9A	S 387	100% (52.59)	1.0000	2	3	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
IPI00306933	Isoform Short of Myosin-9B	S 1114	100% (28.93)	1.0000	8	5	2	1	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00336047	Isoform Long of Myosin-9B	S 1114	100% (28.93)	1.0000	8	5	2	1	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00337736	Isoform 2 of Kinectin	S 77	100% (26.31)	1.0000	3	9	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	3	1	0	2	1	0	0	0	0	1	0	0	1	0	0	0	0	0
IPI00442150	CDNA FLJ16420 fis, clone BRACE3003053. (Fragment)	S 458	100% (27.70)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00303343	Serine arginine-rich pre-mRNA splicing factor SR-A1	S 738	100% (28.13)	1.0000	8	3	1	2	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00479404	vacuolar protein sorting 13D isoform 1	S 1047	100% (55.13)	1.0000	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00514073	vacuolar protein sorting 13D isoform 2	S 1047	100% (55.13)	1.0000	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00186139	hypothetical protein LOC65095 isoform 1	S 645	100% (28.23)	1.0000	3	5	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0
IPI00255778	hypothetical protein LOC65095 isoform 2	S 527	100% (28.23)	1.0000	3	5	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0
IPI00180625	KIAA0284 protein	S 916	100% (52.00)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00455806	paternally expressed 10 isoform RF1	S 321	100% (51.99)	1.0000	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0
IPI00181905	Isoform 1 of Protein KIAA1914	S 165	100% (51.96)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00455138	IMP dehydrogenase/GMP reductase family protein	S 193	100% (51.96)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00295502	PREDICTED: widely-interspaced zinc finger motifs isoform 1	S 935	100% (51.81)	1.0000	1	7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0
IPI00298738	DNA-directed RNA polymerase, mitochondrial precursor	S 1141	100% (53.71)	1.0000	7	2	1	2	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
IPI00165995	Isoform 1 of Splicing factor, arginine/serine-rich 130	S 311	100% (54.71)	1.0000	2	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00448751	Hypothetical protein DKFZp686A0439	S 506	100% (56.47)	1.0000	4	5	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00477763	Serine/threonine-protein kinase MRCK beta	S 1690	100% (58.66)	1.0000	10	10	3	1	0	0	0	0	4	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	4	0	0	0	0	0	3	0	0	0	0	0
IPI00181396	VPRBP protein	S 553	100% (56.34)	1.0000	5	11	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	1	1	0	0	0	2	1	1	0	0	0	2	0	1	0	0	0
IPI00220045	Isoform 1 of DNA-directed RNA polymerases III 80 kDa polypeptide	S 503	100% (56.36)	1.0000	5	6	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0
IPI00329528	Hypothetical protein	S 999	100% (56.34)	1.0000	5	11	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	1	1	0	0	0	2	1	1	0	0	0	2	0	1	0	0	0
IPI00410590	Isoform 2 of Protein FAM61A	S 216	100% (56.34)	1.0000	7	10	0	0	2	0	0	0	0	0	1	0	0	0	0	1	1	1	1	0	0	1	1	1	0	0	0	1	1	1	1	0	0	1	1	0	1	0
IPI00478300	Isoform 1 of Protein FAM61A	S 216	100% (56.34)	1.0000	7	10	0	0	2	0	0	0	0	0	1	0	0	0	0	1	1	1	1	0	0	1	1	1	0	0	0	1	1	1	1	0	0	0	1	1	0	1
IPI00643874	76 kDa protein	S 467	100% (56.36)	1.0000	5	6	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0
IPI00218240	Wolf-Hirschhorn syndrome candidate 1 protein isoform 1	S 121	100% (54.40)	1.0000	4	3	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00657687	Isoform 1 of Actin-binding protein anillin	S 553	100% (51.38)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00743594	124 kDa protein	S 554	100% (51.38)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00242962	KIAA1618 protein (Fragment)	S 1123	100% (27.25)	1.0000	5	4	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00005904	Probable ATP-dependent RNA helicase DDX20	S 714	100% (25.67)	1.0000	2	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00011938	Isoform 1 of Adenylate cyclase type 6	S 54	100% (25.67)	1.0000	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00025512	Heat-shock protein beta-1	S 199	100% (25.67)	1.0000	2	4	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0
IPI00220444	Isoform 2 of Adenylate cyclase type 6	S 54	100% (25.67)	1.0000	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00337315	Isoform 1 of Retinoblastoma-binding protein 6	S 360	100% (25.67)	1.0000	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0
IPI00376283	Isoform 2 of Retinoblastoma-binding protein 6	S 360	100% (25.67)	1.0000	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0
IPI00382585	182 kDa protein	S 183	100% (25.67)	1.0000	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0
IPI00293451	Tight junction protein ZO-3	S 333	100% (56.05)	1.0000	8	0	0	2	0	0	0	0	0	4	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00744036	tight junction protein 3	S 352	100% (56.05)	1.0000	8	0	0	2	0	0	0	0	0	4	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00013297	28 kDa heat- and acid-stable phosphoprotein	S 63	100% (55.00)	1.0000	23	28	2	0	0	2	5	0	1	0	0	1	8	0	1	0	0	3	0	0	0	0	0	4	5	0	0	0	0	6	4	0	0	0	0	5	4	0
IPI00000856	Isoform 1 of Pleckstrin homology domain-containing family C member 1	S 159	100% (59.98)	1.0000	5	3	2	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00008490	UNC93 homolog B1	S 547	100% (28.09)	1.0000	28	20	5	4	0	0	0	0	6	3	0	0	0	0	6	3	1	0	0	0	5	2	0	0	0	0	5	2	0	0	0	0	4	2	0	0	0	0
IPI00022790	Microfibrillar-associated protein 1	S 53	100% (26.06)	1.0000	13	15	0	1	4	0	0	0	0	1	3	0	0	0	0	0	4	0	0	0	0	2	4	0	0	0	0	1	3	0	0	0	0	2	3	0	0	0
IPI00396634	OTTHUMP00000028561	S 1154	100% (55.92)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00550746	Nuclear migration protein nudC	S 139	100% (37.29)	1.0000	6	8	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 222	100% (50.97)	1.0000	3	2	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 227	100% (50.97)	1.0000	3	2	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00016006	Gephyrin	S 194	100% (55.68)	1.0000	8	6	0	3	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0
IPI00184477	gephyrin isoform 1	S 194	100% (55.68)	1.0000	8	6	0	3	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0
IPI00152510	ATP-dependent RNA helicase DDX54	S 788	100% (25.43)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00304885	Centromere protein C 1	S 709	100% (28.41)	1.0000	6	8	1	0	0	0	0	0	2	2	0	0	0	0	1	0	0	0	0	0	1	3	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0
IPI00168698	PDZ domain-containing protein 8	S 538	100% (53.61)	1.0000	5	4	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00027280	Isoform Beta-2 of DNA topoisomerase 2-beta	S 1581	100% (56.47)	1.0000	22	13	5	1	0	0	1	0	6	1	0	0	0	0	6	1	0	0	1	0	5	1	0	0	0	0	2	1	0	0	0	0	3	0	0	1	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00217709	Isoform Beta-1 of DNA topoisomerase 2-beta	S 1576	100% (56.47)	1.0000	22	13	5	1	0	0	1	0	6	1	0	0	0	0	6	1	0	0	1	0	5	1	0	0	0	0	2	1	0	0	0	0	3	0	0	1	0	0
IPI00382733	Transcription repressor	S 88	100% (56.34)	1.0000	9	14	1	2	0	0	0	0	1	3	0	0	0	0	2	0	0	0	0	0	1	3	0	0	0	0	2	3	0	0	0	0	2	3	0	0	0	0
IPI00397380	Isoform 2 of Epsin-2	S 192	100% (56.34)	1.0000	9	8	0	0	1	2	0	0	0	0	3	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	2	1	0	0	0	0	2	0	0	0
IPI00397381	epsin 2 isoform a	S 192	100% (56.34)	1.0000	9	8	0	0	1	2	0	0	0	0	3	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	2	1	0	0	0	0	2	0	0	0
IPI00413362	signal-induced proliferation-associated 1 like 1	S 1127	100% (56.34)	1.0000	3	1	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00435422	Isoform 2 of Signal-induced proliferation-associated 1-like protein 1	S 1127	100% (56.34)	1.0000	3	1	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00718792	LOC387680 protein (Fragment)	S 433	100% (56.51)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00304885	Centromere protein C 1	S 713	100% (29.32)	1.0000	2	4	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00100798	CASP8-associated protein 2	S 875	100% (50.31)	1.0000	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00554761	Nonhistone chromosomal protein HMG-14	S 88	100% (38.16)	1.0000	2	8	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	3	0	0	0	0	0	3	0	0
IPI00019835	Isoform 1 of Bcl-2-related proline-rich protein	S 113	100% (40.21)	1.0000	2	5	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	0	0
IPI00159652	PREDICTED: hypothetical protein LOC23045 isoform 1	S 1517	100% (25.11)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00256861	Isoform 2 of Microtubule-actin crosslinking factor 1, isoforms 1/2/3/5	S 1363	100% (25.11)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00513991	620 kDa protein	S 1363	100% (25.11)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00550385	Isoform 1 of Microtubule-actin crosslinking factor 1, isoforms 1/2/3/5	S 1328	100% (25.11)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00739607	PREDICTED: similar to CG32045-PB, isoform B isoform 5	S 1517	100% (25.11)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1179	100% (25.11)	1.0000	24	21	7	0	0	0	0	0	7	0	0	0	0	0	10	0	0	0	0	0	6	0	0	0	0	0	7	0	0	0	0	0	8	0	0	0	0	0
IPI00303797	B-Raf proto-oncogene serine/threonine-protein kinase	S 151	100% (25.10)	1.0000	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00177743	251 kDa protein	S 173	100% (53.20)	1.0000	2	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00296337	Isoform 1 of DNA-dependent protein kinase catalytic subunit	S 3847	100% (25.10)	1.0000	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00029745	Nuclear factor 1 A-type	S 287	100% (50.04)	1.0000	1	5	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0
IPI00163319	Nuclear factor 1	S 287	100% (50.04)	1.0000	1	5	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0
IPI00641645	Nuclear factor 1	S 310	100% (50.04)	1.0000	1	5	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0
IPI00646660	Nuclear factor 1	S 265	100% (50.04)	1.0000	1	5	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0
IPI00171475	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 interacting protein	S 204	100% (56.47)	1.0000	5	5	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0
IPI00168459	Isoform 2 of Pleckstrin homology-like domain family B member 2	S 489	100% (52.86)	1.0000	6	6	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00181905	Isoform 1 of Protein KIAA1914	S 484	100% (52.86)	1.0000	3	6	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0
IPI00218486	Isoform 1 of Protein phosphatase Slingshot homolog 3	S 9	100% (52.86)	1.0000	7	7	0	1	1	0	0	0	0	1	1	0	0	0	1	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	1	1	1	0	0	0
IPI00296432	Isoform 1 of IWS1-like protein	S 248	100% (35.13)	1.0000	3	6	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0
IPI00410259	Isoform 1 of Pleckstrin homology-like domain family B member 2	S 489	100% (52.86)	1.0000	6	6	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00455138	IMP dehydrogenase/GMP reductase family protein	S 512	100% (52.86)	1.0000	3	6	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00657763	Isoform 3 of Pleckstrin homology-like domain family B member 2	S 516	100% (52.86)	1.0000	6	6	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00718792	LOC387680 protein (Fragment)	S 392	100% (52.86)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00027157	CENP-F kinetochore protein	S 2996	100% (49.62)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00299526	Polycomb protein SUZ12	S 546	100% (56.69)	1.0000	6	3	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00103709	Isoform 1 of Inhibitor of growth protein 5	S 118	100% (49.79)	1.0000	5	7	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	0
IPI00513864	Isoform 2 of Inhibitor of growth protein 5	S 118	100% (49.79)	1.0000	5	7	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	0
IPI00737275	PREDICTED: similar to inhibitor of growth family, member 5 isoform 5	S 114	100% (49.79)	1.0000	5	7	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	0
IPI00740186	PREDICTED: similar to inhibitor of growth family, member 5 isoform 4	S 118	100% (49.79)	1.0000	5	7	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	0
IPI00741464	PREDICTED: similar to inhibitor of growth family, member 5	S 224	100% (49.79)	1.0000	5	7	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	0
IPI00741813	PREDICTED: similar to inhibitor of growth family, member 5 isoform 2	S 114	100% (49.79)	1.0000	5	7	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	0
IPI00743778	76 kDa protein	S 230	100% (49.79)	1.0000	25	24	1	1	5	0	2	0	1	1	3	1	2	0	1	1	2	1	1	2	0	0	2	1	2	2	0	1	4	0	3	0	0	1	4	1	2	1
IPI00221325	Ran-binding protein 2	S 1160	100% (24.82)	1.0000	10	9	3	1	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	4	1	0	0	0	0
IPI00550523	hypothetical protein LOC25923	S 21	100% (49.67)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 295	100% (54.46)	1.0000	11	8	1	1	1	1	0	0	1	1	0	0	2	0	1	0	1	0	0	0	1	1	0	0	0	0	2	1	1	0	0	0	1	1	0	0	0	0
IPI00104050	Thyroid hormone receptor-associated protein 3	S 320	100% (57.41)	1.0000	18	19	1	2	0	0	0	0	3	7	0	0	0	0	3	2	0	0	0	0	2	2	1	0	0	0	2	3	1	0	0	0	3	4	1	0	0	0
IPI00186139	hypothetical protein LOC65095 isoform 1	S 634	100% (25.73)	1.0000	6	7	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0
IPI00255778	hypothetical protein LOC65095 isoform 2	S 516	100% (25.73)	1.0000	6	7	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0
IPI00005184	Isoform Long of Transcription intermediary factor 1-alpha	S 1025	100% (24.75)	1.0000	1	6	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00184317	Isoform Short of Transcription intermediary factor 1-alpha	S 991	100% (24.75)	1.0000	1	6	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00164672	mRNA decapping enzyme 1A	S 353	100% (52.40)	1.0000	5	8	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	2	2	0	0	0	0	0	1	0	0	0	1	2	0	0	0	0
IPI00166487	Isoform 3 of Protein KIAA0310	S 1786	100% (49.35)	1.0000	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00219314	Isoform 2 of Protein KIAA0310	S 1786	100% (49.35)	1.0000	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00641384	Isoform 1 of Protein KIAA0310	S 1786	100% (49.35)	1.0000	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00007277	LRR FLI-I interacting protein 2	S 328	100% (56.34)	1.0000	12	12	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0
IPI00027280	Isoform Beta-2 of DNA topoisomerase 2-beta	S 1524	100% (26.31)	1.0000	12	6	4	0	0	0	0	0	5	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00103090	Hypothetical protein LEO1	S 294	100% (32.59)	1.0000	4	3	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00217709	Isoform Beta-1 of DNA topoisomerase 2-beta	S 1519	100% (26.31)	1.0000	12	6	4	0	0	0	0	0	5	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00449923	Isoform 1 of Retinoic acid-induced protein 1	S 683	100% (49.21)	1.0000	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00449924	Isoform 2 of Retinoic acid-induced protein 1	S 636	100% (49.21)	1.0000	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00647688	198 kDa protein	S 634	100% (49.21)	1.0000	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00045914	Msx2-interacting protein	S 740	100% (26.82)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00008490	UNC93 homolog B1	S 550	100% (26.12)	1.0000	21	20	3	3	0	0	0	0	4	3	0	0	0	0	4	3	1	0	0	0	4	3	0	0	0	0	4	3	0	0	0	0	3	2	1	0	0	0
IPI00024773	Isoform 1 of FERM, RhoGEF and pleckstrin domain-containing protein 1	S 889	100% (53.92)	1.0000	9	15	1	0	0	0	0	0	1	2	0	0	0	0	2	3	0	0	0	0	3	2	1	0	0	0	1	2	1	1	0	0	2	1	1	0	0	0
IPI00746455	Isoform 2 of FERM, RhoGEF and pleckstrin domain-containing protein 1	S 920	100% (53.92)	1.0000	9	15	1	0	0	0	0	0	1	2	0	0	0	0	2	3	0	0	0	0	3	2	1	0	0	0	1	2	1	1	0	0	2	1	1	0	0	0
IPI00290547	E14 protein	S 207	100% (31.22)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00013721	Serine/threonine-protein kinase PRP4 homolog	S 23	100% (49.06)	1.0000	8	9	1	1	0	0	0	0	1	2	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	2	2	0	0	0	0	2	1	0	0	0	0
IPI00032107	Sulfate transporter	S 16	100% (52.06)	1.0000	17	1	4	1	0	0	0	0	3	4	0	0	0	0	3	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00412993	CDNA FLJ36874 fis, clone ASTRO2018169, weakly similar to Oocyte- specific protein P100	S 41	100% (40.04)	1.0000	3	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00454969	PHD finger protein 14	S 208	100% (51.96)	1.0000	9	8	0	2	0	0	0	0	2	2	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	2	2	0	0	0	0
IPI00465287	ras responsive element binding protein 1 isoform 2	S 161	100% (52.00)	1.0000	3	7	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	1	0	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0
IPI00465288	ras responsive element binding protein 1 isoform 1	S 161	100% (52.00)	1.0000	3	7	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	1	0	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0
IPI00472782	PHD finger protein 14 isoform 1	S 208	100% (51.96)	1.0000	9	8	0	2	0	0	0	0	2	2	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	2	2	0	0	0	0
IPI00328293	Serine¥/arginine repetitive matrix 1	S 616	100% (37.54)	1.0000	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00425560	Isoform 1 of LAP4 protein	S 1220	100% (47.17)	1.0000	6	6	1	1	1	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	1	0	1	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00425566	Isoform 4 of LAP4 protein	S 1220	100% (47.17)	1.0000	6	6	1	1	1	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	1	0	1	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00006079	Isoform 1 of Bcl-2-associated transcription factor 1	S 512	100% (24.44)	1.0000	18	13	2	3	2	1	0	0	2	1	1	0	1	0	1	2	1	0	1	0	1	2	1	0	0	0	1	2	1	1	0	0	1	1	1	1	0	0
IPI00008865	PDZ domain-containing guanine nucleotide exchange factor I	S 1144	100% (24.44)	1.0000	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00176702	Protein KIAA1543	S 814	100% (48.87)	1.0000	1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00237884	Isoform 1 of A-kinase anchor protein 12	S 597	100% (24.44)	1.0000	9	12	2	0	0	0	0	0	3	1	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	4	0	0	0	0	0	5	0	0	0	0	0
IPI00291839	Isoform 2 of Rap guanine nucleotide exchange factor 6	S 1094	100% (24.44)	1.0000	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00337694	Isoform 1 of Rap guanine nucleotide exchange factor 6	S 1094	100% (24.44)	1.0000	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00337696	Isoform 3 of Rap guanine nucleotide exchange factor 6	S 1108	100% (24.44)	1.0000	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00413671	Isoform 2 of Bcl-2-associated transcription factor 1	S 510	100% (24.44)	1.0000	18	13	2	3	2	1	0	0	2	1	1	0	1	0	1	2	1	0	1	0	1	2	1	0	0	0	1	2	1	1	0	0	1	1	1	1	0	0
IPI00413672	Isoform 3 of Bcl-2-associated transcription factor 1	S 510	100% (24.44)	1.0000	18	13	2	3	2	1	0	0	2	1	1	0	1	0	1	2	1	0	1	0	1	2	1	0	0	0	1	2	1	1	0	0	1	1	1	1	0	0
IPI00640524	PREDICTED: hypothetical protein LOC57662	S 843	100% (48.87)	1.0000	1	6	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00306933	Isoform Short of Myosin-9B	S 1115	100% (25.17)	1.0000	11	10	4	0	0	0	0	0	3	0	0	0	0	0	4	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	4	0	0	0	0	0
IPI00336047	Isoform Long of Myosin-9B	S 1115	100% (25.17)	1.0000	11	10	4	0	0	0	0	0	3	0	0	0	0	0	4	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	4	0	0	0	0	0
IPI00237884	Isoform 1 of A-kinase anchor protein 12	S 218	100% (24.34)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00290652	remodeling and spacing factor 1	S 1226	100% (24.63)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514411	Isoform 2 of Hepatitis B virus X-associated protein	S 1185	100% (24.63)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00162549	SP110 nuclear body protein isoform c	S 244	100% (24.34)	1.0000	14	11	1	1	1	1	0	0	1	1	2	1	0	0	1	0	3	1	0	0	0	1	2	1	0	0	1	1	1	1	0	0	1	1	1	0	0	0
IPI00220747	SP110 nuclear body protein isoform b	S 244	100% (24.34)	1.0000	14	11	1	1	1	1	0	0	1	1	2	1	0	0	1	0	3	1	0	0	0	1	2	1	0	0	1	1	1	1	0	0	1	1	1	0	0	0
IPI00398959	SP110 nuclear body protein isoform a	S 244	100% (24.34)	1.0000	14	11	1	1	1	1	0	0	1	1	2	1	0	0	1	0	3	1	0	0	0	1	2	1	0	0	1	1	1	1	0	0	1	1	1	0	0	0
IPI00472430	Isoform 3 of Sp110 nuclear body protein	S 244	100% (24.34)	1.0000	14	11	1	1	1	1	0	0	1	1	2	1	0	0	1	0	3	1	0	0	0	1	2	1	0	0	1	1	1	1	0	0	1	1	1	0	0	0
IPI00001757	Isoform 1 of RNA-binding protein 8A	S 56	100% (24.32)	1.0000	10	10	0	0	0	0	3	0	0	0	0	0	4	0	0	0	0	3	0	0	0	0	0	0	4	0	0	0	0	3	0	0	0	0	0	0	3	0
IPI00101942	Calmin	S 419	100% (24.32)	1.0000	2	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00290452	Transmembrane BAX inhibitor motif-containing protein 1	S 83	100% (24.32)	1.0000	10	9	0	0	2	1	0	0	0	1	2	1	0	0	0	0	1	2	0	0	0	0	2	1	0	0	0	2	1	1	0	0	1	0	1	0	0	0
IPI00293451	Tight junction protein ZO-3	S 360	100% (24.32)	1.0000	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00304409	Calcium-regulated heat stable protein 1	S 30	100% (36.66)	1.0000	7	4	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	0	0	0
IPI00307591	zinc finger protein 609	S 1055	100% (24.32)	1.0000	4	3	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00744036	tight junction protein 3	S 379	100% (24.32)	1.0000	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 2046	100% (24.32)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00303343	Serine arginine-rich pre-mRNA splicing factor SR-A1	S 725	100% (24.32)	1.0000	11	15	0	3	0	0	0	0	3	1	1	0	0	0	2	1	0	0	0	0	4	3	0	0	0	0	3	1	0	0	0	0	3	1	0	0	0	0
IPI00216219	Isoform Long of Tight junction protein ZO-1	S 178	100% (26.16)	1.0000	4	4	1	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00384202	Isoform 1 of Probable JmjC domain-containing histone demethylation protein 2C	S 641	100% (35.45)	1.0000	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00021175	Cell division cycle 2-related protein kinase 7	S 423	100% (24.24)	1.0000	5	4	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00302592	Filamin A, alpha	S 2120	100% (24.24)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00333541	Filamin-A	S 2127	100% (24.24)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00657687	Isoform 1 of Actin-binding protein anillin	S 642	100% (24.24)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00743594	124 kDa protein	S 643	100% (24.24)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00472102	Heat shock protein 60	S 70	100% (48.45)	1.0000	3	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00029822	SMARCA4 isoform 2	S 1449	100% (56.14)	1.0000	5	5	2	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0
IPI00293426	Probable global transcription activator SNF2L4	S 1417	100% (56.14)	1.0000	5	5	2	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0
IPI00186966	Isoform IIA of Myc box-dependent-interacting protein 1	S 298	100% (34.08)	1.0000	9	9	0	0	4	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	1	0	0	0	0	3	0	0	0	0	2	1	0	0	0
IPI00220587	Isoform BIN1+12A of Myc box-dependent-interacting protein 1	S 282	100% (34.08)	1.0000	9	9	0	0	4	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	1	0	0	0	0	3	0	0	0	0	2	1	0	0	0
IPI00220996	Isoform IIB of Myc box-dependent-interacting protein 1	S 267	100% (34.08)	1.0000	9	9	0	0	4	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	1	0	0	0	0	3	0	0	0	0	2	1	0	0	0
IPI00220998	Isoform II2 of Myc box-dependent-interacting protein 1	S 267	100% (34.08)	1.0000	9	9	0	0	4	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	1	0	0	0	0	3	0	0	0	0	2	1	0	0	0
IPI00477959	TAF3 RNA polymerase II, TATA box binding protein	S 243	100% (51.63)	1.0000	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00304866	Tumor necrosis factor, alpha-induced protein 2	S 123	100% (24.18)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216219	Isoform Long of Tight junction protein ZO-1	S 179	100% (25.95)	1.0000	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00477763	Serine/threonine-protein kinase MRCK beta	S 1693	100% (55.37)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00216049	Isoform 1 of Heterogeneous nuclear ribonucleoprotein K	S 216	100% (24.17)	1.0000	7	11	0	0	1	1	0	0	0	0	2	1	0	0	0	2	0	0	0	0	0	0	2	2	0	0	0	0	3	1	0	0	0	2	1	0	0	0
IPI00414481	Isoform 1 of General transcription factor 3C polypeptide 1	S 1069	100% (51.31)	1.0000	10	8	3	0	0	0	0	0	3	0	0	0	0	0	4	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0
IPI00414482	Isoform 2 of General transcription factor 3C polypeptide 1	S 1089	100% (51.31)	1.0000	10	8	3	0	0	0	0	0	3	0	0	0	0	0	4	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	S 2098	100% (55.92)	1.0000	4	6	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0
IPI00017443	Absent in melanoma 1-like	S 224	100% (37.87)	1.0000	3	1	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00396634	OTTHUMP00000028561	S 1701	100% (48.11)	1.0000	3	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00658152	tensin-like SH2 domain containing 1	S 1154	100% (48.10)	1.0000	1	4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00759836	Tensin	S 1256	100% (48.10)	1.0000	1	4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1729	100% (27.83)	1.0000	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00168849	Cdc42-interaction protein 4 long isoform	S 296	100% (52.86)	1.0000	6	10	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	1	0	0	0	2	0	0	0	1	0	1	1	0	0	1

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00028077	Isoform 1 of Presenilin-1	S 367	100% (27.96)	1.0000	7	4	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00216654	Isoform Beta of Nucleolar phosphoprotein p130	S 708	100% (51.00)	1.0000	7	8	0	2	1	0	0	0	0	1	1	0	1	0	0	1	0	0	0	0	0	2	0	0	1	0	0	2	1	0	0	0	0	1	1	0	0	0
IPI00219934	Isoform 2 of Presenilin-1	S 363	100% (27.96)	1.0000	7	4	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00292387	Isoform Alpha of Nucleolar phosphoprotein p130	S 698	100% (51.00)	1.0000	7	8	0	2	1	0	0	0	0	1	1	0	1	0	0	1	0	0	0	0	0	2	0	0	1	0	0	2	1	0	0	0	0	1	1	0	0	0
IPI00183002	Isoform 1 of Protein phosphatase 1 regulatory subunit 12A	S 299	100% (51.00)	1.0000	9	12	1	1	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	2	1	1	0	0	1	1	1	1	0	0
IPI00397728	Isoform 2 of Protein phosphatase 1 regulatory subunit 12A	S 299	100% (51.00)	1.0000	9	12	1	1	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	2	1	1	0	0	1	1	1	1	0	0
IPI00397730	Isoform 4 of Protein phosphatase 1 regulatory subunit 12A	S 299	100% (51.00)	1.0000	9	12	1	1	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	2	1	1	0	0	1	1	1	1	0	0
IPI00413191	Isoform 3 of Protein phosphatase 1 regulatory subunit 12A	S 299	100% (51.00)	1.0000	9	12	1	1	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	2	1	1	0	0	1	1	1	1	0	0
IPI00554711	Junction plakoglobin	S 663	100% (52.05)	1.0000	17	18	0	3	3	0	0	0	0	1	4	0	0	0	0	3	3	0	0	0	0	2	4	0	0	0	0	2	4	0	0	0	0	2	4	0	0	0
IPI00217978	26 kDa protein	S 226	100% (55.57)	1.0000	6	10	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	1	2	1	0	0	0	0	4	0	0	0	0	0	2	0	0
IPI00178203	Some homology with holliday junction DNA helicase RUVB like	S 422	100% (23.78)	1.0000	2	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00414657	CTF18, chromosome transmission fidelity factor 18 homolog	S 253	100% (23.78)	1.0000	2	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00456750	Niban-like protein	S 633	100% (52.32)	1.0000	3	6	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00647286	hypothetical protein LOC64855	S 646	100% (52.32)	1.0000	3	6	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00150057	Isoform 2 of SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily C me	S 302	100% (43.09)	1.0000	7	9	1	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0
IPI00216047	Isoform 1 of SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily C me	S 302	100% (43.09)	1.0000	7	9	1	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0
IPI00027280	Isoform Beta-2 of DNA topoisomerase 2-beta	S 1466	100% (54.46)	1.0000	17	14	5	1	0	0	0	0	5	0	0	0	0	0	5	1	0	0	0	0	4	1	0	0	0	0	3	1	0	0	0	0	5	0	0	0	0	0
IPI00217709	Isoform Beta-1 of DNA topoisomerase 2-beta	S 1461	100% (54.46)	1.0000	17	14	5	1	0	0	0	0	5	0	0	0	0	0	5	1	0	0	0	0	4	1	0	0	0	0	3	1	0	0	0	0	5	0	0	0	0	0
IPI00157442	Rho guanine nucleotide exchange factor 11	S 663	100% (33.14)	1.0000	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00377085	Rho guanine nucleotide exchange factor (GEF) 11 isoform 2	S 703	100% (33.14)	1.0000	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514608	172 kDa protein	S 701	100% (33.14)	1.0000	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00165995	Isoform 1 of Splicing factor, arginine/serine-rich 130	S 313	100% (50.43)	1.0000	2	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00152007	Tumor endothelial marker 4	S 619	100% (47.38)	1.0000	4	3	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00180154	Isoform 1 of Ataxin-2	S 625	100% (47.29)	1.0000	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00455359	Isoform 2 of Ataxin-2	S 623	100% (47.29)	1.0000	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00455363	Isoform 4 of Ataxin-2	S 623	100% (47.29)	1.0000	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00719520	ATXN2 protein (Fragment)	S 413	100% (47.29)	1.0000	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00009866	Isoform 1 of Keratin, type I cytoskeletal 13	S 144	100% (23.64)	1.0000	2	7	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0
IPI00013877	Isoform 1 of Heterogeneous nuclear ribonucleoprotein H3	S 94	100% (23.62)	1.0000	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00016780	Isoform 1 of PR domain zinc finger protein 2	S 1652	100% (23.63)	1.0000	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00170865	Membrane-associated guanylate kinase-related 3	S 118	100% (26.08)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216493	Isoform 3 of Heterogeneous nuclear ribonucleoprotein H3	S 45	100% (23.62)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010700	Isoform 1 of Large proline-rich protein BAT2	S 1092	100% (26.31)	1.0000	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00084746	229 kDa protein	S 1092	100% (26.31)	1.0000	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00376933	HLA-B associated transcript-2 isoform b	S 1080	100% (26.31)	1.0000	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00643923	PREDICTED: similar to HLA-B associated transcript-2 isoform a isoform 10	S 1139	100% (26.31)	1.0000	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00741537	PREDICTED: hypothetical protein LOC84726 isoform 1	S 1139	100% (26.31)	1.0000	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00742934	HLA-B associated transcript-2 isoform a	S 1092	100% (26.31)	1.0000	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00414836	Osteoclast-stimulating factor 1	S 213	100% (50.23)	1.0000	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010906	CLN3 protein	S 12	100% (45.01)	1.0000	12	7	1	1	1	0	0	0	1	2	0	0	0	0	2	3	1	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0
IPI00456681	Isoform 1 of Transcription elongation factor SPT6	S 1537	100% (49.79)	1.0000	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00008531	REST corepressor 1	S 124	100% (47.05)	1.0000	4	3	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00004413	Tumor necrosis factor receptor superfamily member 21 precursor	S 541	100% (47.05)	1.0000	7	6	0	0	0	2	1	0	0	1	0	2	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	0	0	2	0	0	0	0	2	0	0	0
IPI00017030	Isoform 1 of Myosin-18A	S 164	100% (55.45)	1.0000	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00185919	Isoform 1 of La-related protein 1	S 521	100% (38.03)	1.0000	15	12	3	3	2	0	0	0	2	1	2	0	0	0	1	1	0	0	0	0	2	2	1	0	0	0	3	2	0	0	0	0	1	1	0	0	0	0
IPI00427522	Isoform 1 of Peroxisome proliferator-activated receptor-binding protein	S 1223	100% (56.47)	1.0000	4	7	0	1	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	1	1	0	0	0	1	1	1	0	0
IPI00064212	KIAA1802 protein (Fragment)	S 306	100% (41.52)	1.0000	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00103090	Hypothetical protein LEO1	S 296	100% (28.13)	1.0000	3	2	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00414497	Chromosome 13 open reading frame 8	S 297	100% (41.52)	1.0000	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00010700	Isoform 1 of Large proline-rich protein BAT2	S 380	100% (46.91)	1.0000	6	10	1	0	0	0	0	0	1	1	0	0	0	0	3	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0	0
IPI00084746	229 kDa protein	S 380	100% (46.91)	1.0000	6	10	1	0	0	0	0	0	1	1	0	0	0	0	3	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0	0
IPI00376933	HLA-B associated transcript-2 isoform b	S 380	100% (46.91)	1.0000	6	10	1	0	0	0	0	0	1	1	0	0	0	0	3	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0	0
IPI00742934	HLA-B associated transcript-2 isoform a	S 380	100% (46.91)	1.0000	6	10	1	0	0	0	0	0	1	1	0	0	0	0	3	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0	0
IPI00220740	Isoform 2 of Nucleophosmin	S 70	100% (29.12)	1.0000	128	155	4	4	8	23	3	4	6	7	10	15	3	4	6	5	3	11	5	7	3	4	11	22	4	7	3	4	9	23	4	7	5	8	13	16	5	7
IPI00409640	LISCH protein isoform 2	S 467	100% (27.30)	1.0000	3	4	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0
IPI00409641	LISCH protein isoform 3	S 399	100% (27.30)	1.0000	3	4	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0
IPI00641640	LISCH protein isoform 1	S 448	100% (27.30)	1.0000	3	4	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0
IPI00219012	Proto-oncogene tyrosine-protein kinase Fyn	S 20	100% (49.79)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00220219	Coatomer subunit beta'	S 858	100% (49.79)	1.0000	53	48	7	7	1	0	3	0	7	9	0	0	1	0	9	7	1	0	1	0	7	5	0	0	2	0	7	5	1	0	2	1	7	6	1	0	3	1
IPI00397015	Novel protein	S 596	100% (49.79)	1.0000	2	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00549473	PREDICTED: similar to Forkhead box protein K1 (Myocyte nuclear factor) (MNF) isoform 1	S 253	100% (49.79)	1.0000	6	6	0	1	0	0	0	0	1	0	0	0	0	0	0	2	1	1	0	0	0	1	2	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0
IPI00556645	forkhead box K1	S 416	100% (49.79)	1.0000	6	6	0	1	0	0	0	0	1	0	0	0	0	0	0	2	1	1	0	0	0	1	2	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0
IPI00030466	PREDICTED: hypothetical protein LOC26115 isoform 1	S 1444	100% (33.66)	1.0000	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00100673	Charged multivesicular body protein 3	S 199	100% (46.64)	1.0000	5	5	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	2	1	0	0	0	0	0	1	0	0	0	1	0	0	0
IPI00220402	Protein phosphatase inhibitor 2	S 121	100% (46.62)	1.0000	11	8	0	0	0	1	2	0	0	0	0	1	3	0	0	0	0	1	3	0	0	0	0	2	2	0	0	0	0	2	0	0	0	0	1	1	0	0
IPI00410126	PPP1R2P3 protein	S 122	100% (46.62)	1.0000	11	8	0	0	0	1	2	0	0	0	0	1	3	0	0	0	0	1	3	0	0	0	0	2	2	0	0	0	0	2	0	0	0	0	1	1	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																				SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00004671	Golgin subfamily B member 1	S 17	100% (46.62)	1.0000	2	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00006038	Isoform 1 of Nuclear pore complex protein Nup98-Nup96 precursor	S 888	100% (46.62)	1.0000	17	17	1	2	0	1	2	0	1	2	0	1	2	0	1	2	0	0	2	0	1	2	0	1	2	0	1	1	0	2	1	0	1	2	0			
IPI00021518	Isoform 1 of DNA damage-binding protein 2	S 26	100% (23.30)	1.0000	20	21	2	2	2	3	0	0	1	1	2	3	0	0	2	1	0	1	0	0	3	1	2	2	0	0	3	0	2	3	0	0	2	1	1	1	0	0
IPI00028122	Isoform 1 of PC4 and SFRS1-interacting protein	S 275	100% (51.23)	1.0000	10	9	0	1	2	1	0	0	0	2	1	2	0	0	0	1	0	0	0	0	0	2	1	1	0	0	0	1	0	2	0	0	0	1	0	1	0	0
IPI00446284	Isoform D3 of DNA damage-binding protein 2	S 26	100% (23.30)	1.0000	20	21	2	2	2	3	0	0	1	1	2	3	0	0	2	1	0	1	0	0	3	1	2	2	0	0	3	0	2	3	0	0	2	1	1	1	0	0
IPI00549348	Isoform D1 of DNA damage-binding protein 2	S 26	100% (23.30)	1.0000	20	21	2	2	2	3	0	0	1	1	2	3	0	0	2	1	0	1	0	0	3	1	2	2	0	0	3	0	2	3	0	0	2	1	1	1	0	0
IPI00607674	Isoform D2 of DNA damage-binding protein 2	S 26	100% (23.30)	1.0000	20	21	2	2	2	3	0	0	1	1	2	3	0	0	2	1	0	1	0	0	3	1	2	2	0	0	3	0	2	3	0	0	2	1	1	1	0	0
IPI00607727	Isoform D4 of DNA damage-binding protein 2	S 26	100% (23.30)	1.0000	20	21	2	2	2	3	0	0	1	1	2	3	0	0	2	1	0	1	0	0	3	1	2	2	0	0	3	0	2	3	0	0	2	1	1	1	0	0
IPI00045914	Msx2-interacting protein	S 736	100% (40.19)	1.0000	2	4	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00021129	Isoform 1 of AP-3 complex subunit beta-1	S 415	100% (46.57)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00552897	Isoform 1 of Mediator of DNA damage checkpoint protein 1	S 1775	100% (51.29)	1.0000	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00641106	227 kDa protein	S 1775	100% (51.29)	1.0000	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00646885	Rho GTPase activating protein 5 isoform a	S 968	100% (49.45)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00216540	Isoform 4 of Protein kinase C-binding protein 1	S 279	100% (46.10)	1.0000	4	2	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00418316	RACK7 isoform e	S 675	100% (46.10)	1.0000	4	2	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00640598	protein kinase C binding protein 1 isoform a	S 675	100% (46.10)	1.0000	4	2	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00718938	Isoform 6 of Protein kinase C-binding protein 1	S 510	100% (46.10)	1.0000	4	2	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00719682	Isoform 7 of Protein kinase C-binding protein 1	S 674	100% (46.10)	1.0000	4	2	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00740207	RACK7 isoform j	S 650	100% (46.10)	1.0000	4	2	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00741204	RACK7 isoform f	S 650	100% (46.10)	1.0000	4	2	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00748579	RACK7 isoform d	S 650	100% (46.10)	1.0000	4	2	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00445401	Isoform 2 of HECT, UBA and WWE domain-containing protein 1	S 2362	100% (46.31)	1.0000	7	6	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00456919	Isoform 1 of HECT, UBA and WWE domain-containing protein 1	S 2362	100% (46.31)	1.0000	7	6	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00643153	Isoform 3 of HECT, UBA and WWE domain-containing protein 1	S 2353	100% (46.31)	1.0000	7	6	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00640818	Neuropathy target esterase	S 1329	100% (51.00)	1.0000	2	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00017763	Nucleosome assembly protein 1-like 4	S 125	100% (49.24)	1.0000	47	42	1	2	6	6	2	0	2	1	4	7	0	0	1	1	6	7	1	0	1	1	5	8	1	0	0	2	6	5	1	0	1	2	5	4	0	0
IPI00329005	Isoform 2 of Aftiphilin	S 226	100% (54.67)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00429547	Isoform 4 of Aftiphilin	S 226	100% (54.67)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00434952	Isoform 5 of Aftiphilin	S 226	100% (54.67)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00554475	Isoform 3 of Aftiphilin	S 226	100% (54.67)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00554740	Isoform 1 of Aftiphilin	S 226	100% (54.67)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00006038	Isoform 1 of Nuclear pore complex protein Nup98-Nup96 precursor	S 608	100% (22.99)	1.0000	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00375731	Hypothetical protein DKFZp686E2459	S 154	100% (22.99)	1.0000	9	10	0	1	1	1	0	0	1	0	1	1	0	0	1	1	0	1	0	0	1	1	0	1	0	0	1	0	1	1	0	0	1	1	1	1	0	0
IPI00654555	NOL1 protein	S 214	100% (45.93)	1.0000	9	4	1	2	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00329005	Isoform 2 of Aftiphilin	S 382	100% (48.91)	1.0000	2	3	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00429547	Isoform 4 of Aftiphilin	S 382	100% (48.91)	1.0000	2	3	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00434952	Isoform 5 of Aftiphilin	S 382	100% (48.91)	1.0000	2	3	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00554475	Isoform 3 of Aftiphilin	S 382	100% (48.91)	1.0000	2	3	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00554740	Isoform 1 of Aftiphilin	S 382	100% (48.91)	1.0000	2	3	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00013891	Isoform Long of Transformer-2 protein homolog	S 262	100% (48.87)	1.0000	12	15	1	1	1	2	1	0	1	0	1	1	0	0	1	0	0	2	0	0	1	0	2	2	0	0	1	1	0	3	0	0	1	1	1	2	0	0
IPI00074148	dystonin isoform 1	S 1382	100% (22.93)	1.0000	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00301503	Isoform 1 of Arginine/serine-rich splicing factor 10	S 266	100% (48.87)	1.0000	12	15	1	1	1	2	1	0	1	0	1	1	0	0	1	0	0	2	0	0	1	0	2	2	0	0	1	1	0	3	0	0	1	1	1	2	0	0
IPI00555647	Splicing factor, arginine/serine-rich 10	S 266	100% (48.87)	1.0000	12	15	1	1	1	2	1	0	1	0	1	1	0	0	1	0	0	2	0	0	1	0	2	2	0	0	1	1	0	3	0	0	1	1	1	2	0	0
IPI00106955	Hypothetical protein LOC144097	S 148	100% (27.38)	1.0000	8	8	0	0	2	1	0	0	0	0	1	1	0	0	1	0	1	1	0	0	0	0	1	2	0	0	0	0	2	1	0	0	0	0	1	1	0	0
IPI00033054	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase like 2	S 104	100% (48.78)	1.0000	14	9	0	0	4	0	0	0	0	0	5	0	0	0	0	0	5	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	4	0	0	0
IPI00219301	Myristoylated alanine-rich C-kinase substrate	S 144	100% (45.01)	1.0000	20	24	0	1	4	2	0	0	0	0	5	2	0	0	0	1	3	2	0	0	0	1	5	3	0	0	0	1	6	2	0	0	0	0	5	1	0	0
IPI00292009	palladin	S 286	100% (22.77)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00013076	Isoform 1 of FGFR1 oncogene partner	S 156	100% (48.51)	1.0000	7	13	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	1	2	1	0	0	0	1	2	1	0	0	0	1	3	1	0
IPI00305013	Isoform 2 of FGFR1 oncogene partner	S 156	100% (48.51)	1.0000	7	13	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	1	2	1	0	0	0	1	2	1	0	0	0	1	3	1	0
IPI00004233	Isoform Long of Antigen KI-67	S 357	100% (48.47)	1.0000	14	14	1	0	3	0	1	0	1	0	2	0	1	0	1	1	1	1	1	0	1	1	2	0	0	0	1	0	3	0	1	0	1	2	1	1	0	0
IPI00301293	antigen identified by monoclonal antibody Ki-67	S 357	100% (48.47)	1.0000	14	14	1	0	3	0	1	0	1	0	2	0	1	0	1	1	1	1	1	0	1	1	2	0	0	0	1	0	3	0	1	0	1	2	1	1	0	0
IPI00022348	Isoform PML-1 of Probable transcription factor PML	S 403	100% (45.39)	1.0000	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00023344	Isoform 1 of Symplekin	S 1243	100% (22.69)	1.0000	5	4	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
IPI00220453	Isoform PML-X of Probable transcription factor PML	S 403	100% (45.39)	1.0000	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00303999	Isoform PML-2 of Probable transcription factor PML	S 403	100% (45.39)	1.0000	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00304000	Isoform PML-3 of Probable transcription factor PML	S 403	100% (45.39)	1.0000	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00332110	promyelocytic leukemia protein isoform 9	S 403	100% (45.39)	1.0000	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746292	symplekin	S 1111	100% (22.69)	1.0000	5	4	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
IPI00099311	Isoform 1 of tRNA	S 298	100% (51.35)	1.0000	7	5	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0
IPI00004472	Isoform 1 of Serine/threonine-protein kinase WNK1	S 2032	100% (45.16)	1.0000	4	7	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0
IPI00009342	Ras GTPase-activating-like protein IQGAP1	S 1443	100% (45.16)	1.0000	2	7	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00038698	Retinoblastoma-associated protein RAP140	S 298	100% (45.16)	1.0000	4	8	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0
IPI00397590	Isoform 2 of Serine/threonine-protein kinase WNK1	S 1786	100% (45.16)	1.0000	4	7	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0
IPI00646058	103 kDa protein	S 384	100% (45.16)	1.0000	10	14	1	1	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	1	3	1	0	0	0	2	3	0	0	0	0	1	2	1	0	0	0
IPI00747266	226 kDa protein	S 1786	100% (45.16)	1.0000	4	7	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0
IPI00748509	251 kDa protein	S 2032	100% (45.16)	1.0000	4	7	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00005036	RNA-binding protein 5	S 624	100% (28.96)	1.0000	10	10	1	2	0	1	0	0	1	1	0	1	0	0	1	2	0	0	0	0	1	2	0	1	0	0	1	2	0	0	0	0	1	2	0	0	0	0
IPI00103090	Hypothetical protein LEO1	S 300	100% (26.31)	1.0000	6	4	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00328293	Serine¥/arginine repetitive matrix 1	S 722	100% (45.01)	1.0000	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00029019	Ubiquitin-associated protein 2-like	S 469	100% (53.53)	1.0000	6	9	1	0	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	1	1	0	0	1	1	1	1	0	0
IPI00412535	115 kDa protein	S 469	100% (53.53)	1.0000	6	9	1	0	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	1	1	0	0	1	1	1	1	0	0
IPI00514856	Ubiquitin associated protein 2-like	S 467	100% (53.53)	1.0000	6	9	1	0	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	1	1	0	0	1	1	1	1	0	0
IPI00329236	Protein kinase C delta type	S 664	100% (45.03)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00384562	protein kinase C, delta	S 664	100% (45.03)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00185919	Isoform 1 of La-related protein 1	S 627	100% (49.79)	1.0000	20	19	0	5	0	0	0	0	4	4	0	0	0	0	2	5	0	0	0	0	3	5	0	0	0	0	2	4	0	0	0	0	2	3	0	0	0	0
IPI00186711	plectin 1 isoform 6	S 720	100% (45.03)	1.0000	7	6	1	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00298731	Serine/threonine-protein phosphatase 1 regulatory subunit 10	S 313	100% (45.01)	1.0000	7	7	0	1	0	0	0	0	0	2	0	0	0	0	0	3	1	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0
IPI00398002	plectin 1 isoform 1	S 610	100% (45.03)	1.0000	7	6	1	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00398779	plectin 1 isoform 11	S 583	100% (45.03)	1.0000	7	6	1	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00514311	CTTNBP2 N-terminal-like protein	S 488	100% (45.01)	1.0000	14	8	1	1	3	1	0	0	1	0	2	1	1	0	1	1	0	1	0	0	0	1	0	1	0	0	1	1	0	0	0	0	1	1	1	1	0	0
IPI00027035	XPA-binding protein 1	S 338	100% (45.01)	1.0000	7	6	0	0	0	2	0	0	0	0	0	2	0	0	1	0	0	2	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0
IPI00029795	Isoform 4 of Nuclear factor 1 C-type	S 339	100% (49.76)	1.0000	13	16	0	0	3	3	0	0	0	0	1	3	0	0	0	0	1	2	0	0	0	0	2	3	0	0	0	0	4	3	0	0	0	0	2	2	0	0
IPI00218035	Isoform 1 of Nuclear factor 1 C-type	S 330	100% (49.76)	1.0000	13	16	0	0	3	3	0	0	0	0	1	3	0	0	0	0	1	2	0	0	0	0	2	3	0	0	0	0	4	3	0	0	0	0	2	2	0	0
IPI00218037	Isoform 2 of Nuclear factor 1 C-type	S 330	100% (49.76)	1.0000	13	16	0	0	3	3	0	0	0	0	1	3	0	0	0	0	1	2	0	0	0	0	2	3	0	0	0	0	4	3	0	0	0	0	2	2	0	0
IPI00218039	Isoform 3 of Nuclear factor 1 C-type	S 306	100% (49.76)	1.0000	13	16	0	0	3	3	0	0	0	0	1	3	0	0	0	0	1	2	0	0	0	0	2	3	0	0	0	0	4	3	0	0	0	0	2	2	0	0
IPI00218041	Isoform 5 of Nuclear factor 1 C-type	S 339	100% (49.76)	1.0000	13	16	0	0	3	3	0	0	0	0	1	3	0	0	0	0	1	2	0	0	0	0	2	3	0	0	0	0	4	3	0	0	0	0	2	2	0	0
IPI00103090	Hypothetical protein LEO1	S 658	100% (22.45)	1.0000	3	2	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00176398	Isoform 1 of SLIT and NTRK-like protein 6 precursor	S 652	100% (47.84)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00477535	DNA-repair protein complementing XP-G cells	S 156	100% (24.45)	1.0000	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00386700	ladinin 1	S 121	100% (44.75)	1.0000	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00514234	Ladinin 1	S 135	100% (44.75)	1.0000	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00017030	Isoform 1 of Myosin-18A	S 2023	100% (47.68)	1.0000	7	5	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0
IPI00027157	CENP-F kinetochore protein	S 3150	100% (49.35)	1.0000	3	5	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	3	0	0	0	0
IPI00302592	Filamin A, alpha	S 1533	100% (49.35)	1.0000	6	6	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0
IPI00333541	Filamin-A	S 1532	100% (49.35)	1.0000	6	6	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0
IPI00433194	EHBP1 protein	S 401	100% (49.35)	1.0000	3	11	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	0	3	2	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1732	100% (25.95)	1.0000	4	3	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0
IPI00008868	Microtubule-associated protein 1B	S 1396	100% (50.51)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00374770	microtubule-associated protein 1B isoform 2	S 1270	100% (50.51)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00027834	heterogeneous nuclear ribonucleoprotein L isoform a	S 185	100% (44.44)	1.0000	2	3	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
IPI00152503	Protein deltex 3-like protein	S 532	100% (44.44)	1.0000	9	9	0	4	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	4	1	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0
IPI00154915	Isoform 1 of Partitioning-defective 3 homolog	S 383	100% (44.44)	1.0000	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00179063	Isoform 4 of Partitioning-defective 3 homolog	S 383	100% (44.44)	1.0000	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00301595	Isoform 2 of Partitioning-defective 3 homolog	S 383	100% (44.44)	1.0000	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00301597	Par-3 partitioning defective 3 homolog	S 339	100% (44.44)	1.0000	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00386662	Isoform 4 of FUS-interacting serine-arginine-rich protein 1	S 133	100% (44.44)	1.0000	4	6	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0
IPI00412643	Isoform 2 of FUS-interacting serine-arginine-rich protein 1	S 133	100% (44.44)	1.0000	4	6	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0
IPI00646643	FUS interacting protein (Serine-arginine rich) 1	S 133	100% (44.44)	1.0000	4	6	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0
IPI00017451	Splicing factor 3 subunit 1	S 359	100% (44.43)	1.0000	4	4	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00328835	Isoform 1 of Serine/threonine-protein kinase 32C	S 18	100% (47.38)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0
IPI00218529	Isoform AML-1I of Runt-related transcription factor 1	S 36	100% (47.36)	1.0000	2	4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0
IPI00218936	Isoform AML-1A of Runt-related transcription factor 1	S 21	100% (47.36)	1.0000	2	4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0
IPI00218938	Isoform AML-1C of Runt-related transcription factor 1	S 21	100% (47.36)	1.0000	2	4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0
IPI00218942	Isoform AML-1FC of Runt-related transcription factor 1	S 21	100% (47.36)	1.0000	2	4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0
IPI00218943	Isoform AML-1G of Runt-related transcription factor 1	S 48	100% (47.36)	1.0000	2	4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0
IPI00218944	Isoform AML-1H of Runt-related transcription factor 1	S 24	100% (47.36)	1.0000	2	4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0
IPI00413370	RUNX1 protein (Fragment)	S 48	100% (47.36)	1.0000	2	4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0
IPI00477787	Isoform AML-1B of Runt-related transcription factor 1	S 21	100% (47.36)	1.0000	2	4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0
IPI00006196	Isoform 2 of Nuclear mitotic apparatus protein 1	S 1225	100% (47.36)	1.0000	5	10	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0
IPI00292771	Isoform 1 of Nuclear mitotic apparatus protein 1	S 1225	100% (47.36)	1.0000	5	10	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0
IPI00000030	Isoform Delta-1 of Serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit delta isoform	S 573	100% (44.31)	1.0000	3	7	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0
IPI00386170	Sperm specific antigen 2	S 737	100% (47.31)	1.0000	6	2	1	1	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00411614	WD repeat and HMG-box DNA-binding protein 1	S 383	100% (44.28)	1.0000	8	5	1	1	0	0	0	0	1	2	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00513835	WD repeat and HMG-box DNA binding protein 1 isoform 2	S 260	100% (44.28)	1.0000	8	5	1	1	0	0	0	0	1	2	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00748353	126 kDa protein	S 383	100% (44.28)	1.0000	8	5	1	1	0	0	0	0	1	2	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00221325	Ran-binding protein 2	S 1509	100% (48.99)	1.0000	4	7	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0
IPI00401611	PREDICTED: RW1 protein isoform 1	S 1375	100% (44.14)	1.0000	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1731	100% (26.31)	1.0000	6	4	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00657687	Isoform 1 of Actin-binding protein anillin	S 792	100% (44.12)	1.0000	1	16	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	0	0	0	2	3	1	1	0	0	2	2	1	0	0	0
IPI00743594	124 kDa protein	S 793	100% (44.12)	1.0000	1	16	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	0	0	0	2	3	1	1	0	0	2	2	1	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1188	100% (44.08)	1.0000	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00640055	Novel protein	S 741	100% (38.03)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00006093	Protein FAM38A	S 1227	100% (22.01)	1.0000	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00008438	40S ribosomal protein S10	S 146	100% (22.01)	1.0000	2	3	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00748920	splicing coactivator subunit SRm300	S 2581	100% (22.01)	1.0000	9	6	0	1	2	0	0	0	2	0	1	0	0	0	0	0	2	1	0	0	1	0	0	0	0	0	2	1	1	0	0	0	0	1	0	0	0	0
IPI00023109	Chromodomain-helicase-DNA-binding protein 2	S 1386	100% (43.95)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00398992	Isoform 1 of Chromodomain-helicase-DNA-binding protein 8	S 274	100% (44.44)	1.0000	4	2	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00719073	Isoform 2 of Chromodomain-helicase-DNA-binding protein 8	S 418	100% (44.44)	1.0000	4	2	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00021175	Cell division cycle 2-related protein kinase 7	S 1083	100% (21.94)	1.0000	7	6	1	0	1	0	0	0	1	0	0	0	0	0	4	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0
IPI00029697	exosome component 9 isoform 1	S 306	100% (21.94)	1.0000	7	2	1	0	1	0	0	0	1	0	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
IPI00291916	pleckstrin homology domain interacting protein	S 1315	100% (21.94)	1.0000	6	6	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0
IPI00607722	Hypothetical protein PMSCL1	S 222	100% (21.94)	1.0000	7	2	1	0	1	0	0	0	1	0	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
IPI00654592	exosome component 9 isoform 2	S 306	100% (21.94)	1.0000	7	2	1	0	1	0	0	0	1	0	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
IPI00004273	RNA binding motif protein 25	S 677	100% (43.88)	1.0000	22	18	2	3	1	0	2	0	1	3	1	0	2	0	1	3	0	0	3	0	2	4	0	0	1	0	2	3	0	0	2	0	1	2	0	0	1	0
IPI00221325	Ran-binding protein 2	S 2668	100% (43.88)	1.0000	3	2	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00296432	Isoform 1 of IWS1-like protein	S 313	100% (43.84)	1.0000	7	8	0	1	1	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	1	2	0	0	0	0	0
IPI00745518	Microtubule-associated protein 4 isoform 1 variant (Fragment)	S 308	100% (43.88)	1.0000	25	34	3	2	1	1	0	0	4	2	1	1	1	0	4	1	1	1	2	0	5	3	0	2	0	0	5	4	1	1	1	1	5	2	1	1	1	1
IPI00453473	Histone H4	S 47	100% (43.86)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00170979	Isoform 2 of Ena/VASP-like protein	S 349	100% (43.84)	1.0000	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218245	Isoform 1 of Ena/VASP-like protein	S 351	100% (43.84)	1.0000	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00302594	hypothetical protein LOC91748	S 661	100% (41.94)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00156282	G protein pathway suppressor 1 isoform 2	S 474	100% (46.62)	1.0000	6	8	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	1	2	0	0	0
IPI00291711	pleckstrin homology domain containing, family G, member 3	S 981	100% (46.62)	1.0000	5	6	1	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	2	1	0	0	0	0	0
IPI00414289	G protein pathway suppressor 1 isoform 1	S 510	100% (46.62)	1.0000	6	8	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	1	2	0	0
IPI00152881	Shroom-related protein	S 912	100% (21.81)	1.0000	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00328342	Isoform 1 of Sodium bicarbonate cotransporter 3	S 1186	100% (21.76)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00387156	Isoform 2 of Sodium bicarbonate cotransporter 3	S 1054	100% (21.76)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00304587	dispatched B	S 1373	100% (21.65)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010700	Isoform 1 of Large proline-rich protein BAT2	S 1089	100% (24.24)	1.0000	10	2	2	1	0	0	0	0	4	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00084746	229 kDa protein	S 1089	100% (24.24)	1.0000	10	2	2	1	0	0	0	0	4	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00376933	HLA-B associated transcript-2 isoform b	S 1077	100% (24.24)	1.0000	10	2	2	1	0	0	0	0	4	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00643923	PREDICTED: similar to HLA-B associated transcript-2 isoform a isoform 10	S 1136	100% (24.24)	1.0000	11	1	2	1	0	0	0	0	5	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00741537	PREDICTED: hypothetical protein LOC84726 isoform 1	S 1136	100% (24.24)	1.0000	11	1	2	1	0	0	0	0	5	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00742934	HLA-B associated transcript-2 isoform a	S 1089	100% (24.24)	1.0000	10	2	2	1	0	0	0	0	4	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00018370	Isoform 2 of Supervillin	S 261	100% (24.32)	1.0000	7	6	2	1	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2	1	1	0	0	0	0
IPI00738937	PREDICTED: hypothetical protein LOC57479 isoform 1	S 504	100% (43.16)	1.0000	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00745321	PREDICTED: similar to CG17233-PA, isoform A isoform 5	S 495	100% (43.16)	1.0000	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00001735	nuclear receptor co-repressor 2	S 2015	100% (43.03)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 2102	100% (43.00)	0.9999	4	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00300384	Receptor tyrosine-protein kinase erbB-2 precursor	S 1054	100% (42.99)	0.9999	11	5	2	1	1	0	0	0	2	1	1	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0
IPI00654851	erbB-2 isoform b	S 1024	100% (42.99)	0.9999	11	5	2	1	1	0	0	0	2	1	1	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0
IPI00298696	Treacle protein	S 426	100% (42.96)	0.9999	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00747047	Treacle major isoform	S 503	100% (42.96)	0.9999	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00444371	WD repeat domain 44 protein	S 403	100% (45.90)	0.9999	12	11	2	3	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	2	2	0	0	0	0	0
IPI00552345	WD repeat domain 44	S 403	100% (45.90)	0.9999	12	11	2	3	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	2	2	0	0	0	0	0
IPI00747740	Hypothetical protein DKFZp686F0572	S 405	100% (45.90)	0.9999	12	11	2	3	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	2	2	0	0	0	0	0
IPI00013297	28 kDa heat- and acid-stable phosphoprotein	S 60	100% (45.87)	0.9999	22	32	2	0	0	2	5	0	1	0	0	1	6	0	1	0	0	0	4	0	0	0	0	5	6	0	0	0	0	6	4	0	0	0	0	5	6	0
IPI00748920	splicing coactivator subunit SRm300	S 1320	100% (42.87)	0.9999	14	9	5	1	0	0	0	0	3	1	0	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0	1	1	0	0	0	0	0
IPI00328715	Protein LYRIC	S 568	100% (45.87)	0.9999	4	6	0	1	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	1	1	1	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	S 845	100% (36.01)	0.9999	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00409635	KIAA1228 protein	S 733	100% (45.16)	0.9999	8	6	1	2	0	0	0	0	0	3	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0
IPI00003783	Dual specificity mitogen-activated protein kinase kinase 2	S 306	100% (21.39)	0.9999	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00185919	Isoform 1 of La-related protein 1	S 766	100% (44.44)	0.9999	15	13	2	2	1	0	0	0	2	2	1	0	0	0	2	2	1	0	0	0	2	2	1	0	0	0	2	1	1	0	0	0	2	2	0	0	0	0
IPI00028077	Isoform 1 of Presenilin-1	S 366	100% (21.94)	0.9999	10	4	0	0	0	0	3	1	0	0	0	0	2	0	0	0	0	0	3	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0
IPI00219934	Isoform 2 of Presenilin-1	S 362	100% (21.94)	0.9999	10	4	0	0	0	0	3	1	0	0	0	0	2	0	0	0	0	0	3	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0
IPI00477535	DNA-repair protein complementing XP-G cells	S 157	100% (22.39)	0.9999	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413140	Dynamin-1	S 777	100% (45.01)	0.9999	5	7	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	4	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0
IPI00514850	dynamin 1 isoform 2	S 774	100% (45.01)	0.9999	5	7	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	4	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0
IPI00552861	dynamin 1 isoform 1	S 774	100% (45.01)	0.9999	5	7	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	4	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0
IPI00044583	Isoform 1 of Transcriptional-regulating factor 1	S 491	100% (42.60)	0.9999	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00022613	Isoform 1 of Probable nucleolar complex protein 14	S 96	100% (42.60)	0.9999	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00743803	Isoform 2 of Probable nucleolar complex protein 14	S 96	100% (42.60)	0.9999	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00645814	KIAA1187 protein	S 511	100% (41.94)	0.9999	7	5	0	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00654605	Hypothetical protein RPRC1	S 548	100% (41.94)	0.9999	7	5	0	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00645078	Ubiquitin-activating enzyme E1	S 835	100% (21.26)	0.9999	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00295457	myosin phosphatase-Rho interacting protein isoform 1	S 289	100% (41.57)	0.9999	5	4	0	2	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0
IPI00301263	CAD protein	S 1900	100% (49.42)	0.9999	6	7	1	1	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0
IPI00291755	Isoform 1 of Nuclear pore membrane glycoprotein 210 precursor	S 1878	100% (44.44)	0.9999	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00291916	pleckstrin homology domain interacting protein	S 641	100% (47.05)	0.9999	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00412771	CD2-associated protein	S 510	100% (42.28)	0.9999	9	8	0	1	2	0	1	0	0	1	1	0	2	0	0	1	0	0	0	0	0	2	1	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0
IPI00145593	Nucleolar protein with MIF4G domain 1	S 139	100% (21.08)	0.9999	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00069694	Isoform 1 of General transcription factor II-I repeat domain-containing protein 1	S 448	100% (45.16)	0.9999	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219913	Ubiquitin carboxyl-terminal hydrolase 14	S 142	100% (45.16)	0.9999	3	8	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	3	1	0	0	0	0	2	0	0	0	0
IPI00306406	Serine/threonine-protein kinase RIO2	S 380	100% (45.16)	0.9999	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00454912	GTF2I repeat domain containing protein 1	S 480	100% (45.16)	0.9999	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00472179	Isoform 2 of General transcription factor II-I repeat domain-containing protein 1	S 448	100% (45.16)	0.9999	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00640357	ubiquitin specific protease 14 isoform b	S 108	100% (45.16)	0.9999	3	8	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	3	1	0	0	0	0	2	0	0	0
IPI00395337	Isoform 1 of Pre-mRNA 3'-end-processing factor FIP1	S 492	100% (45.01)	0.9999	53	56	2	2	6	4	2	0	4	5	7	4	1	0	3	4	3	3	3	0	2	5	5	4	1	0	3	6	6	4	1	0	2	5	8	3	1	0
IPI00748920	splicing coactivator subunit SRm300	S 2155	100% (42.12)	0.9999	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00002564	DNA-repair protein XRCC1	S 241	100% (45.11)	0.9999	17	19	1	1	3	1	0	0	1	3	2	1	0	0	1	2	0	1	0	0	1	3	2	1	0	0	1	1	2	1	0	0	1	2	3	1	0	0
IPI00256861	Isoform 2 of Microtubule-actin crosslinking factor 1, isoforms 1/2/3/5	S 2895	100% (45.08)	0.9999	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00432363	Microtubule-actin crosslinking factor 1, isoform 4	S 3397	100% (45.08)	0.9999	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00478739	microfilament and actin filament cross-linker protein isoform b	S 3397	100% (45.08)	0.9999	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00513991	620 kDa protein	S 2895	100% (45.08)	0.9999	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514468	670 kDa protein	S 3397	100% (45.08)	0.9999	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00550385	Isoform 1 of Microtubule-actin crosslinking factor 1, isoforms 1/2/3/5	S 2839	100% (45.08)	0.9999	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005978	Splicing factor, arginine/serine-rich 2	S 205	100% (45.03)	0.9999	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00028357	Exportin-4	S 521	100% (45.03)	0.9999	4	4	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0
IPI00015404	Isoform 1 of AT-rich interactive domain-containing protein 1B	S 1555	100% (45.01)	0.9999	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00291711	pleckstrin homology domain containing, family G, member 3	S 984	100% (45.01)	0.9999	3	3	0	0	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
IPI00394829	hypothetical protein LOC286077	S 870	100% (45.01)	0.9999	7	10	1	1	0	1	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	1	1	1	0	2	1	0	0	0	1	1	1	0	0	0	0
IPI00394829	hypothetical protein LOC286077	S 881	100% (45.01)	0.9999	3	6	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	2	0	1	0	0
IPI00395617	Isoform 2 of AT-rich interactive domain-containing protein 1B	S 1568	100% (45.01)	0.9999	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00396577	Isoform 3 of AT-rich interactive domain-containing protein 1B	S 1608	100% (45.01)	0.9999	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00411635	KIAA0802 protein	S 1604	100% (45.01)	0.9999	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00658152	tensin-like SH2 domain containing 1	S 660	100% (45.01)	0.9999	6	14	1	0	0	0	1	0	0	1	0	0	1	0	0	0	1	1	0	0	2	1	0	1	1	0	2	1	0	1	1	0	1	2	0	0	1	0
IPI00742937	AT rich interactive domain 1B (SWI1-like) isoform 1	S 1550	100% (45.01)	0.9999	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00745518	Microtubule-associated protein 4 isoform 1 variant (Fragment)	S 815	100% (45.01)	0.9999	15	21	0	2	1	1	1	0	0	3	1	2	0	0	1	1	0	1	1	0	2	1	2	0	0	0	2	1	1	3	0	0	2	2	2	2	1	0
IPI00759836	Tensin	S 762	100% (45.01)	0.9999	6	14	1	0	0	0	1	0	0	1	0	0	1	0	0	0	0	1	1	0	2	1	0	1	1	0	2	1	0	1	1	0	1	2	0	0	1	0
IPI00220402	Protein phosphatase inhibitor 2	S 120	100% (41.94)	0.9999	8	7	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	1	1	0
IPI00410126	PPP1R2P3 protein	S 121	100% (41.94)	0.9999	8	7	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	1	1	0
IPI00102059	Kinase-like protein	S 754	100% (46.70)	0.9999	7	7	0	2	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0
IPI00009544	RalA-binding protein 1	S 47	100% (20.98)	0.9999	3	4	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00163849	Epidermal growth factor receptor substrate 15-like 1	S 229	100% (41.77)	0.9999	2	4	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00410330	Isoform 1 of Transcriptional repressor p66 alpha	S 107	100% (41.77)	0.9999	15	14	1	0	3	1	0	0	2	2	2	0	0	0	1	0	2	1	0	0	0	3	3	0	0	0	0	1	2	0	0	0	1	2	2	0	0	0
IPI00444526	Isoform 2 of Transcriptional repressor p66 alpha	S 107	100% (41.77)	0.9999	15	14	1	0	3	1	0	0	2	2	2	0	0	0	1	0	2	1	0	0	0	3	3	0	0	0	0	1	2	0	0	0	1	2	2	0	0	0
IPI00478128	GATA zinc finger domain containing 2A	S 126	100% (41.77)	0.9999	15	14	1	0	3	1	0	0	2	2	2	0	0	0	1	0	2	1	0	0	0	3	3	0	0	0	0	1	2	0	0	0	1	2	2	0	0	0
IPI00646339	Hypothetical protein DKFZp586A0524	S 229	100% (41.77)	0.9999	2	4	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00337335	Isoform 1 of Myosin-14	S 1990	100% (41.75)	0.9999	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
IPI00470461	Hypothetical protein DKFZp686L2367	S 1747	100% (41.75)	0.9999	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00607778	Isoform 4 of Myosin-14	S 1773	100% (41.75)	0.9999	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
IPI00607818	Isoform 2 of Myosin-14	S 2022	100% (41.75)	0.9999	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
IPI00170548	Isoform 1 of ATPase family AAA domain-containing protein 2	S 327	100% (41.72)	0.9999	8	5	2	2	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00006093	Protein FAM38A	S 1401	100% (41.69)	0.9999	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00293845	275 kDa protein	S 7	100% (50.07)	0.9999	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00375454	Isoform 2 of Telomere-associated protein RIF1	S 7	100% (50.07)	0.9999	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00477805	Isoform 1 of Telomere-associated protein RIF1	S 7	100% (50.07)	0.9999	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00029745	Nuclear factor 1 A-type	S 280	100% (41.62)	0.9999	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00163319	Nuclear factor 1	S 280	100% (41.62)	0.9999	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00641645	Nuclear factor 1	S 303	100% (41.62)	0.9999	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00646660	Nuclear factor 1	S 258	100% (41.62)	0.9999	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00104050	Thyroid hormone receptor-associated protein 3	S 315	100% (49.35)	0.9999	5	6	1	0	0	0	0	0	1	2	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0
IPI00411765	SFN protein	S 74	100% (20.79)	0.9999	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00289344	Isoform 1 of Nuclear receptor corepressor 1	S 2151	100% (46.35)	0.9999	11	12	2	1	1	0	0	0	1	1	1	0	0	0	2	1	1	0	0	0	2	1	1	0	0	0	2	1	1	1	0	0	1	1	1	0	0	0
IPI00304875	Isoform 1 of HIRA-interacting protein 3	S 333	100% (41.57)	0.9999	4	1	0	1	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00294653	Protein C21orf5	S 1085	100% (41.55)	0.9999	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	S 993	100% (44.55)	0.9999	6	7	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0
IPI00299254	Eukaryotic translation initiation factor 5B	S 137	100% (32.69)	0.9999	23	18	7	1	0	0	0	0	4	3	0	0	0	0	6	2	0	0	0	0	4	3	1	0	0	0	1	2	0	0	0	0	5	2	0	0	0	0
IPI00002186	Brefeldin A-inhibited guanine nucleotide-exchange protein 2	S 1528	100% (44.44)	0.9999	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00170867	Isoform 1 of Death domain-associated protein 6	S 495	100% (44.44)	0.9999	5	6	0	1	0	0	0	0	1	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00220885	Isoform 2 of Death domain-associated protein 6	S 495	100% (44.44)	0.9999	5	6	0	1	0	0	0	0	1	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00643093	81 kDa protein	S 495	100% (44.44)	0.9999	5	6	0	1	0	0	0	0	1	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00012199	Hypothetical protein FLJ22321	S 47	100% (44.44)	0.9999	11	5	1	0	2	1	0	0	1	0	2	1	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0
IPI00016570	Isoform 3 of Bromodomain-containing protein 8	S 132	100% (20.78)	0.9999	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00148057	Isoform 2 of Bromodomain-containing protein 8	S 272	100% (20.78)	0.9999	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00017030	Isoform 1 of Myosin-18A	S 1945	100% (41.28)	0.9999	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00001735	nuclear receptor co-repressor 2	S 215	100% (20.63)	0.9999	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220993	Isoform CNPI of 2',3'-cyclic-nucleotide 3'-phosphodiesterase	S 259	100% (27.16)	0.9999	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00306667	Isoform CNPII of 2',3'-cyclic-nucleotide 3'-phosphodiesterase	S 279	100% (27.16)	0.9999	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00401611	PREDICTED: RW1 protein isoform 1	S 418	100% (27.16)	0.9999	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00023344	Isoform 1 of Symplekin	S 1259	100% (41.09)	0.9999	7	8	1	2	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0
IPI00746292	symplekin	S 1127	100% (41.09)	0.9999	7	8	1	2	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0
IPI00411559	Isoform 1 of Structural maintenance of chromosomes 4-like 1 protein	S 22	100% (42.83)	0.9999	7	9	2	0	0	0	0	0	1	0	0	0	0	0	4	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	3	1	0	0	0	0
IPI00297723	RNA-binding protein 6	S 362	100% (41.07)	0.9999	8	9	2	2	0	0	0	0	0	1	0	0	0	0	1	1	1	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0	1	1	0	0	0	0
IPI00304875	Isoform 1 of HIRA-interacting protein 3	S 339	100% (41.57)	0.9999	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00061087	Protein C9orf42	S 143	100% (31.27)	0.9999	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00017292	Isoform 1 of Beta-catenin	S 675	100% (43.92)	0.9999	3	11	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	2	1	0	0	0	0	2	0	0	0	0	0	2	2	0	0	0
IPI00024062	Band 4.1-like protein 1	S 546	100% (43.88)	0.9999	7	1	2	1	0	0	0	0	2	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00644651	EPB41L1 protein	S 546	100% (43.88)	0.9999	7	1	2	1	0	0	0	0	2	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00442167	CDNA FLJ16400 fis, clone TUTER2000057, moderately similar to Mus musculus AE-1 binding protein AEB	S 206	100% (43.86)	0.9999	6	4	0	0	2	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0
IPI00026665	Glutaminyl-tRNA synthetase	S 70	100% (43.84)	0.9999	1	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00337641	Isoform 1 of Tetratricopeptide repeat protein 7B	S 575	100% (43.84)	0.9999	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456534	Isoform 2 of Tetratricopeptide repeat protein 7B	S 592	100% (43.84)	0.9999	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00016780	Isoform 1 of PR domain zinc finger protein 2	S 643	100% (20.41)	0.9999	2	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00026625	Isoform 1 of Nuclear pore complex protein Nup155	S 992	100% (20.41)	0.9999	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00032374	Isoform 2 of Protein KIAA0179	S 495	100% (20.41)	0.9999	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00169434	Grb10 interacting GYF protein 2	S 160	100% (20.41)	0.9999	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00290952	Isoform 1 of Protein KIAA0179	S 513	100% (20.41)	0.9999	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00302594	hypothetical protein LOC91748	S 923	100% (20.41)	0.9999	5	9	0	1	0	0	0	0	1	0	1	1	0	0	0	0	0	1	0	0	0	2	0	1	0	0	1	1	2	0	0	0	0	2	0	0	0	0
IPI00376609	Isoform 2 of Nuclear pore complex protein Nup155	S 933	100% (20.41)	0.9999	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00418313	Isoform 4 of Interleukin enhancer-binding factor 3	S 382	100% (20.41)	0.9999	48	52	4	7	5	2	0	1	4	4	5	3	0	1	4	5	1	2	0	0	4	7	4	0	0	0	4	5	3	3	3	2	3	6	4	2	1	1
IPI00419273	Isoform 1 of Cullin-4A	S 10	100% (20.41)	0.9999	2	3	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00470779	Alpha-taxilin	S 515	100% (20.41)	0.9999	7	11	1	2	0	0	0	0	1	1	1	0	0	0	0	0	1	0	0	0	1	2	0	0	0	0	1	0	2	1	0	0	0	1	2	0	0	1
IPI00640055	Novel protein	S 723	100% (20.41)	0.9999	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00386189	Isoform 1 of NMDA receptor-regulated protein 1	S 767	100% (33.54)	0.9999	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00250716	Isoform B of Bromodomain and WD-repeat domain-containing protein 1	S 1788	100% (20.41)	0.9999	4	2	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00289944	Isoform A of Bromodomain and WD-repeat domain-containing protein 1	S 1788	100% (20.41)	0.9999	4	2	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00746752	Isoform C of Bromodomain and WD-repeat domain-containing protein 1	S 1788	100% (20.41)	0.9999	4	2	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00030466	PREDICTED: hypothetical protein LOC26115 isoform 1	S 308	100% (20.41)	0.9999	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00185769	Isoform Beta of ATP-dependent DNA helicase Q5	S 727	100% (40.73)	0.9999	3	2	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00063242	Bcl-XL-binding protein v68	S 80	100% (20.31)	0.9999	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00024773	Isoform 1 of FERM, RhoGEF and pleckstrin domain-containing protein 1	S 427	100% (40.62)	0.9999	4	7	1	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0
IPI00746455	Isoform 2 of FERM, RhoGEF and pleckstrin domain-containing protein 1	S 427	100% (40.62)	0.9999	4	7	1	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0
IPI00030976	Isoform 1 of High-affinity cAMP-specific and IBMX-insensitive 3',5'-cyclic phosphodiesterase 8A	S 367	100% (20.27)	0.9999	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00182447	Isoform 2 of High-affinity cAMP-specific and IBMX-insensitive 3',5'-cyclic phosphodiesterase 8A	S 321	100% (20.27)	0.9999	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218162	Isoform 4-5 of High-affinity cAMP-specific and IBMX-insensitive 3',5'-cyclic phosphodiesterase 8A	S 120	100% (20.27)	0.9999	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00396561	Leucine-rich repeats and calponin homology (CH) domain containing 3	S 419	100% (20.27)	0.9999	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00329572	Protein kinase C and casein kinase substrate in neurons protein 3	S 355	100% (45.15)	0.9999	17	20	0	0	1	6	0	0	0	0	1	4	0	0	0	1	0	4	0	0	0	0	2	4	0	0	0	0	3	4	0	0	0	0	3	4	0	0
IPI00220740	Isoform 2 of Nucleophosmin	S 225	100% (20.22)	0.9999	3	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00005809	Serum deprivation-response protein	S 293	100% (43.45)	0.9999	11	7	0	0	2	1	0	0	0	0	3	1	0	0	0	0	3	1	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00413362	signal-induced proliferation-associated 1 like 1	S 1431	100% (40.36)	0.9999	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00435422	Isoform 2 of Signal-induced proliferation-associated 1-like protein 1	S 1410	100% (40.36)	0.9999	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00161085	Isoform 1 of Nucleolar protein 8	S 384	100% (20.41)	0.9999	7	4	1	0	0	0	0	0	2	1	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0
IPI00480054	Isoform 3 of Nucleolar protein 8	S 252	100% (20.41)	0.9999	7	4	1	0	0	0	0	0	2	1	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0
IPI00643700	Isoform 4 of Nucleolar protein 8	S 378	100% (20.41)	0.9999	7	4	1	0	0	0	0	0	2	1	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0
IPI00759630	Isoform 2 of Nucleolar protein 8	S 310	100% (20.41)	0.9999	7	4	1	0	0	0	0	0	2	1	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0
IPI00304589	182 kDa tankyrase 1-binding protein	S 691	100% (20.17)	0.9999	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 2702	100% (20.17)	0.9999	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00292009	palladin	S 880	100% (20.17)	0.9999	9	21	0	0	1	1	0	0	2	2	1	0	0	0	1	1	0	0	0	0	1	2	1	0	0	0	2	2	3	2	0	1	2	3	2	0	0	0
IPI00013068	Eukaryotic translation initiation factor 3 subunit 6	S 399	100% (20.12)	0.9999	2	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00384765	Membrane-associated tyrosine- and threonine-specific cdc2-inhibitory kinase	S 469	100% (20.12)	0.9999	1	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00742852	55 kDa protein	S 469	100% (20.12)	0.9999	1	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00011689	Elongation factor 2 kinase	S 445	100% (45.01)	0.9999	3	2	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00337465	Isoform P of Kinesin light chain 1	S 456	100% (45.01)	0.9999	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00375843	Hypothetical protein DKFZp686J1375	S 431	100% (45.01)	0.9999	2	6	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	2	0	0	0
IPI00431749	Keratin b20	S 396	100% (45.01)	0.9999	2	6	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	2	0	0	0
IPI00472303	Isoform N of Kinesin light chain 1	S 456	100% (45.01)	0.9999	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00479424	Isoform J of Kinesin light chain 1	S 456	100% (45.01)	0.9999	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00642705	Isoform 2 of AT-rich interactive domain-containing protein 1A	S 696	100% (45.01)	0.9999	4	4	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00643722	Isoform 1 of AT-rich interactive domain-containing protein 1A	S 696	100% (45.01)	0.9999	4	4	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00294742	HDCMA18P protein	S 261	100% (46.24)	0.9999	9	7	1	1	1	1	0	0	1	1	1	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0
IPI00409635	KIAA1228 protein	S 715	100% (46.24)	0.9999	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 2449	100% (43.07)	0.9999	6	5	1	0	1	0	0	0	1	0	0	0	0	0	1	0	2	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0
IPI00000001	Isoform Long of Double-stranded RNA-binding protein Staufen homolog 1	S 390	100% (43.04)	0.9999	4	4	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0
IPI00218609	Isoform Short of Double-stranded RNA-binding protein Staufen homolog 1	S 309	100% (43.04)	0.9999	4	4	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0
IPI00643664	staufen isoform c	S 315	100% (43.04)	0.9999	4	4	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0
IPI00337465	Isoform P of Kinesin light chain 1	S 543	100% (20.00)	0.9999	1	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00445401	Isoform 2 of HECT, UBA and WWE domain-containing protein 1	S 1907	100% (40.00)	0.9999	10	9	2	0	0	0	0	0	2	1	1	0	0	0	2	1	1	0	0	0	2	0	1	0	0	0	2	0	0	0	0	1	2	1	0	0	0	0
IPI00456919	Isoform 1 of HECT, UBA and WWE domain-containing protein 1	S 1907	100% (40.00)	0.9999	10	9	2	0	0	0	0	0	2	1	1	0	0	0	2	1	1	0	0	0	2	0	1	0	0	0	2	0	0	0	0	1	2	1	0	0	0	0
IPI00472303	Isoform N of Kinesin light chain 1	S 587	100% (20.00)	0.9999	1	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00479424	Isoform J of Kinesin light chain 1	S 596	100% (20.00)	0.9999	1	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00643153	Isoform 3 of HECT, UBA and WWE domain-containing protein 1	S 1898	100% (40.00)	0.9999	10	9	2	0	0	0	0	0	2	1	1	0	0	0	2	1	1	0	0	0	2	0	1	0	0	0	2	0	0	0	0	1	2	1	0	0	0	0
IPI00645814	KIAA1187 protein	S 116	100% (45.01)	0.9999	12	13	1	1	0	1	0	0	2	1	1	1	0	0	2	0	0	2	0	0	2	1	1	1	0	0	3	1	1	1	0	0	1	0	1	0	0	0
IPI00654605	Hypothetical protein RPRC1	S 116	100% (45.01)	0.9999	12	13	1	1	0	1	0	0	2	1	1	1	0	0	2	0	0	2	0	0	2	1	1	1	0	0	3	1	1	1	0	0	1	0	1	0	0	0
IPI00293884	Kinesin-like protein KIF23	S 763	100% (42.89)	0.9999	1	8	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	1	0	0	1	1	0	1	1	0
IPI00396145	FYVE finger-containing phosphoinositide kinase	S 1754	100% (42.85)	0.9999	2	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00457244	phosphatidylinositol-3-phosphate/phosphatidylinositol 5-kinase, type III isoform 1	S 1435	100% (42.85)	0.9999	2	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00185769	Isoform Beta of ATP-dependent DNA helicase Q5	S 488	100% (23.34)	0.9999	2	3	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00237884	Isoform 1 of A-kinase anchor protein 12	S 611	100% (20.17)	0.9999	2	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
IPI00304409	Calcium-regulated heat stable protein 1	S 41	100% (24.34)	0.9999	14	10	0	0	0	0	4	0	0	0	0	0	5	0	0	0	0	0	5	0	0	0	0	0	3	0	0	0	0	0	4	0	0	0	0	1	2	0
IPI00013830	SNW domain-containing protein 1	S 232	100% (19.86)	0.9999	44	50	5	1	4	2	0	0	2	4	6	2	1	0	5	4	5	3	0	0	1	4	7	2	0	0	3	5	8	3	0	0	2	4	7	3	0	1
IPI00412676	CDNA FLJ43339 fis, clone NT2RI3007291	S 201	100% (44.44)	0.9999	13	15	0	1	3	1	1	0	0	0	3	1	0	0	0	2	1	0	0	0	0	1	2	2	0	0	0	0	2	2	1	0	0	1	3	0	1	0
IPI00746221	Conserved hypothetical protein	S 55	100% (44.44)	0.9999	7	2	2	0	0	0	1	0	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00549473	PREDICTED: similar to Forkhead box protein K1 (Myocyte nuclear factor) (MNF) isoform 1	S 265	100% (38.46)	0.9999	2	3	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00556645	forkhead box K1	S 428	100% (38.46)	0.9999	2	3	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00160348	claspin	S 1289	100% (19.83)	0.9999	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00744511	CLSPN protein	S 1225	100% (19.83)	0.9999	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00748041	Claspin homolog	S 1291	100% (19.83)	0.9999	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00018370	Isoform 2 of Supervillin	S 221	100% (46.62)	0.9999	16	19	2	2	1	1	0	0	2	1	1	1	0	0	2	1	1	1	0	0	3	3	1	1	0	0	2	2	1	1	0	0	2	1	1	1	0	0
IPI00012199	Hypothetical protein FLJ22321	S 113	100% (30.75)	0.9999	3	5	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0
IPI00643352	nucleoporin 214kDa	S 430	100% (47.36)	0.9999	7	6	2	0	0	0	0	0	1	0	0	0	0	0	2	1	1	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	1	1	1	0	0	0
IPI00004233	Isoform Long of Antigen KI-67	S 1679	100% (44.18)	0.9999	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00301293	antigen identified by monoclonal antibody Ki-67	S 1679	100% (44.18)	0.9999	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00375330	wings apart-like homolog	S 226	100% (23.23)	0.9999	7	8	0	0	1	1	0	0	1	1	0	1	0	0	1	0	1	0	0	0	1	0	1	1	0	0	1	1	0	1	0	0	1	0	0	1	0	0
IPI00412441	Hypothetical protein KIAA0261	S 311	100% (23.23)	0.9999	7	8	0	0	1	1	0	0	1	1	0	1	0	0	1	0	1	0	0	0	1	0	1	1	0	0	1	1	0	1	0	0	1	0	0	1	0	0
IPI00744918	FOE	S 270	100% (23.23)	0.9999	7	8	0	0	1	1	0	0	1	1	0	1	0	0	1	0	1	0	0	0	1	0	1	1	0	0	1	1	0	1	0	0	1	0	0	1	0	0
IPI00012773	Isoform Long of Metastasis-associated protein MTA1	S 449	100% (19.69)	0.9999	4	3	0	1	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00069817	Isoform 1 of Bromodomain adjacent to zinc finger domain protein 1B	S 361	100% (19.68)	0.9999	6	8	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0
IPI00216695	Isoform 2 of Bromodomain adjacent to zinc finger domain protein 1B	S 361	100% (19.68)	0.9999	6	8	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0
IPI00377154	bromodomain adjacent to zinc finger domain, 1B	S 361	100% (19.68)	0.9999	6	8	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0
IPI00465074	Isoform 3 of Kinesin light chain 3	S 187	100% (39.30)	0.9999	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00478456	Isoform 1 of Kinesin light chain 3	S 173	100% (39.30)	0.9999	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00736469	Isoform 2 of Kinesin light chain 3	S 172	100% (39.30)	0.9999	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00165547	Isoform 2 of Phosphatidylinositol 4-kinase beta	S 496	100% (39.23)	0.9999	1	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00008868	Microtubule-associated protein 1B	S 1400	100% (45.20)	0.9999	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00374770	microtubule-associated protein 1B isoform 2	S 1274	100% (45.20)	0.9999	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00306369	NOL1/NOP2/Sun domain family 2 protein	S 456	100% (45.16)	0.9999	2	5	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0
IPI00019901	Isoform 1 of Alpha-adducin	S 358	100% (42.10)	0.9999	19	15	1	1	1	2	0	0	1	3	2	2	0	0	2	2	1	1	0	0	0	2	1	0	0	0	1	2	2	1	0	0	1	4	1	0	0	0
IPI00220158	Isoform 3 of Alpha-adducin	S 358	100% (42.10)	0.9999	19	15	1	1	1	2	0	0	1	3	2	2	0	0	2	2	1	1	0	0	0	2	1	0	0	0	1	2	2	1	0	0	1	4	1	0	0	0
IPI00002349	FMRP interacting protein, 82kD	S 212	100% (45.01)	0.9999	18	14	1	2	2	1	0	0	2	2	1	0	0	0	2	1	2	2	0	0	1	2	1	1	0	0	1	2	1	1	0	0	1	1	2	0	0	0
IPI00175169	Isoform 1 of ADP-ribosylation factor GTPase-activating protein 1	S 361	100% (45.01)	0.9999	10	15	1	0	1	1	0	0	1	1	1	1	0	0	1	0	1	1	0	0	1	1	1	2	0	0	1	1	2	1	1	0	0	2	1	1	0	0
IPI00217354	Isoform 2 of ADP-ribosylation factor GTPase-activating protein 1	S 369	100% (45.01)	0.9999	10	15	1	0	1	1	0	0	1	1	1	1	0	0	1	0	1	1	0	0	1	1	1	2	0	0	1	1	2	1	1	0	0	0	2	1	1	0
IPI00219798	Isoform 1 of Roundabout homolog 1 precursor	S 940	100% (45.01)	0.9999	12	7	1	0	1	0	1	1	1	1	0	1	1	1	1	1	0	0	1	0	1	0	0	0	0	0	1	1	0	0	1	0	1	1	0	0	1	0
IPI00291802	Isoform 3 of LIM domain only protein 7	S 1259	100% (45.01)	0.9999	11	18	1	1	0	0	1	0	1	1	0	1	1	0	1	1	0	0	2	0	1	2	2	1	1	0	1	1	1	1	2	0	1	2	0	0	2	0
IPI00418121	Isoform 2 of Roundabout homolog 1 precursor	S 944	100% (45.01)	0.9999	12	7	1	0	1	0	1	1	1	1	0	1	1	1	1	1	0	0	1	0	1	0	0	0	0	0	1	1	0	0	1	0	1	1	0	0	1	0
IPI00418122	Isoform 3 of Roundabout homolog 1 precursor	S 904	100% (45.01)	0.9999	12	7	1	0	1	0	1	1	1	1	0	1	1	1	1	1	0	0	1	0	1	0	0	0	0	0	1	1	0	0	1	0	1	1	0	0	1	0
IPI00740934	PREDICTED: similar to roundabout 1 isoform b	S 904	100% (45.01)	0.9999	12	7	1	0	1	0	1	1	1	1	0	1	1	1	1	1	0	0	1	0	1	0	0	0	0	0	1	1	0	0	1	0	1	1	0	0	1	0
IPI00657687	Isoform 1 of Actin-binding protein anillin	S 658	100% (44.98)	0.9999	1	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00743594	124 kDa protein	S 659	100% (44.98)	0.9999	1	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00182757	Isoform 1 of Protein KIAA1967	S 677	100% (41.94)	0.9999	13	9	2	3	0	0	0	0	1	3	0	0	0	0	2	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	2	2	0	0	0	0
IPI00306825	Isoform 1 of Tumor protein D54	S 96	100% (41.83)	0.9999	3	6	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0
IPI00399265	tumor protein D52-like 2 isoform a	S 96	100% (41.83)	0.9999	3	6	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0
IPI00399267	tumor protein D52-like 2 isoform c	S 96	100% (41.83)	0.9999	3	6	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0
IPI00304692	Heterogeneous nuclear ribonucleoprotein G	S 58	100% (19.37)	0.9999	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00000846	Isoform 1 of Chromodomain helicase-DNA-binding protein 4	S 1570	100% (19.37)	0.9999	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00455210	Isoform 2 of Chromodomain helicase-DNA-binding protein 4	S 1598	100% (19.37)	0.9999	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00304875	Isoform 1 of HIRA-interacting protein 3	S 332	100% (38.65)	0.9999	3	1	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00104050	Thyroid hormone receptor-associated protein 3	S 939	100% (26.31)	0.9999	19	16	3	3	0	0	0	0	3	5	0	0	0	0	2	3	0	0	0	0	2	2	0	0	0	0	2	5	0	0	0	0	2	3	0	0	0	0
IPI00187011	Zinc finger CCCH-type domain-containing protein C19orf7	S 1275	100% (41.57)	0.9999	10	9	2	2	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	1	2	0	0	0	0	2	0	1	0	0	0
IPI00020468	Selenoprotein S	S 140	100% (43.32)	0.9999	4	6	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	3	0
IPI00023340	Histone acetyltransferase MYST3	S 1113	100% (41.49)	0.9999	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00747970	CDNA FLJ46465 fis, clone THYMU3022434, highly similar to Monocytic leukemia zinc finger protein. (Fra	S 693	100% (41.49)	0.9999	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00014537	Calumenin precursor	S 43	100% (38.42)	0.9999	6	2	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00394829	hypothetical protein LOC286077	S 513	100% (38.16)	0.9999	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010158	Chromatin accessibility complex protein 1	S 124	100% (19.18)	0.9999	8	15	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	5	2	0	0	0	0	2	1	0	0	0	0	4	1
IPI00398170	CDNA FLJ43547 fis, clone PROST2016462	S 125	100% (41.35)	0.9999	3	5	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00645265	ARHGAP27 protein (Fragment)	S 170	100% (41.35)	0.9999	3	5	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00014068	Isoform 1 of Serine/threonine-protein kinase PAK 4	S 181	100% (38.32)	0.9999	14	18	1	1	2	1	0	0	1	0	2	1	0	0	1	1	2	1	0	0	1	1	2	1	0	0	1	2	2	1	0	0	1	2	3	1	0	0
IPI00658152	tensin-like SH2 domain containing 1	S 776	100% (38.26)	0.9999	6	12	2	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0
IPI00759836	Tensin	S 878	100% (38.26)	0.9999	6	12	2	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0
IPI00005024	Isoform 1 of Myb-binding protein 1A	S 11	100% (38.19)	0.9998	11	14	3	1	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0	3	3	1	0	0	0	2	2	0	0	0	0	1	2	0	0	0	0
IPI00300384	Receptor tyrosine-protein kinase erbB-2 precursor	S 1073	100% (38.19)	0.9998	2	7	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00607584	Isoform 2 of Myb-binding protein 1A	S 11	100% (38.19)	0.9998	11	14	3	1	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0	3	3	1	0	0	0	2	2	0	0	0	0	1	2	0	0	0	0
IPI00654851	erbB-2 isoform b	S 1043	100% (38.19)	0.9998	2	7	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00002186	Brefeldin A-inhibited guanine nucleotide-exchange protein 2	S 700	100% (38.17)	0.9998	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00307591	zinc finger protein 609	S 758	100% (38.17)	0.9998	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00006079	Isoform 1 of Bcl-2-associated transcription factor 1	S 290	100% (38.68)	0.9998	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0
IPI00413671	Isoform 2 of Bcl-2-associated transcription factor 1	S 288	100% (38.68)	0.9998	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0
IPI00413672	Isoform 3 of Bcl-2-associated transcription factor 1	S 288	100% (38.68)	0.9998	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0
IPI00096972	Isoform 1 of Histone-lysine N-methyltransferase, H3 lysine-9 specific 3	S 140	100% (38.16)	0.9998	6	6	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0
IPI00103516	Caskin-2	S 697	100% (38.16)	0.9998	2	4	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00220795	Isoform 2 of Histone-lysine N-methyltransferase, H3 lysine-9 specific 3	S 140	100% (38.16)	0.9998	6	6	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0
IPI00220796	Isoform 3 of Histone-lysine N-methyltransferase, H3 lysine-9 specific 3	S 140	100% (38.16)	0.9998	6	6	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0
IPI00334715	172 kDa protein	S 1150	100% (38.16)	0.9998	4	5	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00477498	Isoform 1 of Glucocorticoid receptor DNA-binding factor 1	S 1150	100% (38.16)	0.9998	4	5	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00645216	HLA-B associated transcript 8	S 140	100% (38.16)	0.9998	6	6	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0
IPI00718985	Isoform 2 of Glucocorticoid receptor DNA-binding factor 1	S 1150	100% (38.16)	0.9998	4	5	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00295022	NK-tumor recognition protein	S 463	100% (38.03)	0.9998	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00644127	IsoleucyI-tRNA synthetase, cytoplasmic	S 1051	100% (38.03)	0.9998	4	7	0	1	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	2	0	0	0	0	0	1	2	0	0	0	0	2	0	0	0	0	0
IPI00333913	neuroblastoma-amplified protein	S 473	100% (38.03)	0.9998	4	3	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00456970	Isoform 1 of Cell division cycle 2-like protein kinase 5	S 383	100% (45.01)	0.9998	6	6	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00012079	Eukaryotic translation initiation factor 4B	S 504	100% (45.01)	0.9998	2	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00003964	ubiquitin specific protease 9, X-linked isoform 4	S 2443	100% (47.05)	0.9998	6	5	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00221012	ubiquitin specific protease 9, X-linked isoform 3	S 2443	100% (47.05)	0.9998	6	5	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	S 2391	100% (43.93)	0.9998	2	8	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	1	1	0	0	2	0	0	1	0	0	1	0	0	1	0	0
IPI00010865	Casein kinase II subunit beta	S 209	100% (37.87)	0.9998	18	18	0	0	0	0	3	1	0	0	1	1	4	1	0	0	0	1	4	2	0	0	0	1	3	1	0	0	0	2	3	2	0	0	0	2	3	1
IPI00640088	27 kDa protein	S 228	100% (37.87)	0.9998	18	18	0	0	0	0	3	1	0	0	1	1	4	1	0	0	0	1	4	2	0	0	0	1	3	1	0	0	0	2	3	2	0	0	0	2	3	1
IPI00171390	CDNA FLJ34719 fis, clone MESAN2005689, weakly similar to SPLICING FACTOR, ARGININE/SERINE-RICH	S 194	100% (20.93)	0.9998	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005202	Membrane-associated progesterone receptor component 2	S 90	100% (37.81)	0.9998	9	11	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	1	3	0	0	0	0	1	3	0	0	0	0	0	3	0
IPI00445401	Isoform 2 of HECT, UBA and WWE domain-containing protein 1	S 3792	100% (43.26)	0.9998	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00456919	Isoform 1 of HECT, UBA and WWE domain-containing protein 1	S 3808	100% (43.26)	0.9998	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00643153	Isoform 3 of HECT, UBA and WWE domain-containing protein 1	S 3799	100% (43.26)	0.9998	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00290094	Splicing factor, arginine/serine-rich 8	S 909	100% (43.76)	0.9998	6	7	0	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0
IPI00186028	Hypothetical protein DKFZp434A112	S 855	100% (43.75)	0.9998	5	7	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	2	2	0	0	0	0
IPI00748953	110 kDa protein	S 857	100% (43.75)	0.9998	5	7	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	2	2	0	0	0	0
IPI00102752	Isoform 1 of Putative RNA-binding protein 15	S 741	100% (40.73)	0.9998	9	5	0	3	0	0	0	0	0	2	0	0	0	0	1	2	0	1	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
IPI00220716	Isoform 2 of Putative RNA-binding protein 15	S 741	100% (40.73)	0.9998	9	5	0	3	0	0	0	0	0	2	0	0	0	0	1	2	0	1	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
IPI00220717	Isoform 3 of Putative RNA-binding protein 15	S 741	100% (40.73)	0.9998	9	5	0	3	0	0	0	0	0	2	0	0	0	0	1	2	0	1	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
IPI00179890	Isoform B of Ras-GTPase-activating protein-binding protein 2	S 141	100% (21.13)	0.9998	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00013881	heterogeneous nuclear ribonucleoprotein H1	S 104	100% (37.54)	0.9998	23	21	1	2	3	4	0	0	1	1	3	2	0	0	1	2	1	2	0	0	0	1	2	3	0	0	1	1	3	3	0	0	1	1	2	3	0	0
IPI00100151	5'-3' exoribonuclease 2	S 448	100% (37.54)	0.9998	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00183794	zinc finger protein 265 isoform 2	S 307	100% (37.54)	0.9998	9	10	0	0	1	3	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	2	3	0	0	0	0	1	3	0	0
IPI00479191	HNRPH1 protein	S 104	100% (37.54)	0.9998	23	21	1	2	3	4	0	0	1	1	3	2	0	0	1	2	1	2	0	0	0	1	2	3	0	0	1	1	3	3	0	0	1	1	2	3	0	0
IPI00217121	Protein C19orf21	S 471	100% (42.28)	0.9998	1	6	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0
IPI00001735	nuclear receptor co-repressor 2	S 1871	100% (37.51)	0.9998	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00296907	Isoform 1 of Acyl-coenzyme A oxidase 1, peroxisomal	S 26	100% (44.70)	0.9998	3	4	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0
IPI00477729	Isoform 2 of Acyl-coenzyme A oxidase 1, peroxisomal	S 26	100% (44.70)	0.9998	3	4	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0
IPI00289334	Isoform 1 of Filamin-B	S 2478	100% (44.44)	0.9998	3	9	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	1	2	0	0	0	0	0
IPI00382696	Isoform 2 of Filamin-B	S 2454	100% (44.44)	0.9998	3	9	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	1	2	0	0	0	0	0
IPI00384541	Novel protein	S 758	100% (44.44)	0.9998	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00639879	Novel protein	S 732	100% (44.44)	0.9998	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00011857	Chromatin assembly factor 1 subunit B	S 538	100% (47.82)	0.9998	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00220490	SH3 and multiple ankyrin repeat domains 2 isoform 1	S 1179	100% (40.36)	0.9998	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00334294	Rac GTPase activating protein	S 854	100% (40.36)	0.9998	2	3	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00646885	Rho GTPase activating protein 5 isoform a	S 1176	100% (41.94)	0.9998	7	5	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00012788	Isoform 2 of RNA polymerase I-associated factor PAF49	S 138	100% (37.97)	0.9998	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
IPI00645816	Isoform 1 of RNA polymerase I-associated factor PAF49	S 136	100% (37.97)	0.9998	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
IPI00003843	Isoform A1 of Tight junction protein ZO-2	S 1159	100% (40.00)	0.9998	16	15	2	1	0	0	2	0	2	2	0	0	1	0	2	2	1	0	1	0	2	1	0	1	1	0	2	1	0	0	1	1	2	1	0	0	1	1
IPI00513803	Mitogen-activated protein kinase kinase kinase 2	S 331	100% (41.75)	0.9998	3	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00024071	Isoform Long of Heat shock factor protein 1	S 363	100% (42.97)	0.9998	5	4	0	1	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
IPI00218507	Isoform Short of Heat shock factor protein 1	S 363	100% (42.97)	0.9998	5	4	0	1	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
IPI00032971	Oxysterol-binding protein-related protein 10	S 209	100% (36.85)	0.9998	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00009659	Protein C20orf77	S 134	100% (36.83)	0.9998	10	11	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	4	0	0	0	0	0	4	0	0	0	0	0	3	1	0	0	0	0	3	0	0
IPI00220740	Isoform 2 of Nucleophosmin	S 214	100% (18.42)	0.9998	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00064162	Deubiquitinating protein VCIP135	S 1000	100% (36.83)	0.9998	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00008529	60S acidic ribosomal protein P2	S 79	100% (39.83)	0.9998	2	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00022305	MSTP017	S 414	100% (18.41)	0.9998	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00289491	Protein CASC3	S 265	100% (18.41)	0.9998	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00337741	Acylamino-acid-releasing enzyme	S 187	100% (18.41)	0.9998	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1124	100% (18.41)	0.9998	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1499	100% (26.31)	0.9998	6	3	2	0	0	0	0	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00295004	Isoform 1 of Alsin	S 483	100% (24.13)	0.9998	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1497	100% (25.57)	0.9998	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00018370	Isoform 2 of Supervillin	S 245	100% (39.59)	0.9998	10	8	0	1	1	0	1	0	1	1	1	0	1	0	1	1	0	0	1	0	1	1	0	0	0	0	1	1	0	0	1	0	1	1	0	0	1	0
IPI00439948	Isoform 1 of RelA-associated inhibitor	S 113	100% (42.60)	0.9998	2	9	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	2	1	0	0	0	1	1	1	0	0
IPI00306933	Isoform Short of Myosin-9B	S 1290	100% (36.56)	0.9998	10	10	2	2	0	0	1	0	2	1	0	0	0	0	1	1	0	0	0	0	2	2	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0
IPI00336047	Isoform Long of Myosin-9B	S 1290	100% (36.56)	0.9998	10	10	2	2	0	0	1	0	2	1	0	0	0	0	1	1	0	0	0	0	2	2	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0
IPI00456750	Niban-like protein	S 679	100% (24.44)	0.9998	7	8	0	4	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0
IPI00647286	hypothetical protein LOC64855	S 692	100% (24.44)	0.9998	7	8	0	4	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0
IPI00005648	Scaffold attachment factor B2	S 109	100% (18.26)	0.9998	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00186711	plectin 1 isoform 6	S 4382	100% (41.23)	0.9998	18	16	1	1	1	2	0	0	2	1	2	1	0	0	2	2	2	1	0	0	2	2	2	0	0	0	1	2	2	1	0	0	2	1	1	0	0	0
IPI00398002	plectin 1 isoform 1	S 4272	100% (41.23)	0.9998	18	16	1	1	1	2	0	0	2	1	2	1	0	0	2	2	2	1	0	0	2	2	2	0	0	0	1	2	2	1	0	0	2	1	1	0	0	0
IPI00398779	plectin 1 isoform 11	S 4245	100% (41.23)	0.9998	18	16	1	1	1	2	0	0	2	1	2	1	0	0	2	2	2	1	0	0	2	2	2	0	0	0	1	2	2	1	0	0	2	1	1	0	0	0
IPI00032107	Sulfate transporter	S 12	100% (39.44)	0.9998	7	0	2	0	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00549473	PREDICTED: similar to Forkhead box protein K1 (Myocyte nuclear factor) (MNF) isoform 1	S 257	100% (20.41)	0.9998	8	9	1	2	1	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0
IPI00556645	forkhead box K1	S 420	100% (20.41)	0.9998	8	9	1	2	1	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0
IPI00302149	Isoform 1 of Polyhomeotic-like protein 3	S 823	100% (25.95)	0.9998	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00658100	Isoform 2 of Polyhomeotic-like protein 3	S 804	100% (25.95)	0.9998	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00218823	Isoform 1 of Myeloid/lymphoid or mixed-lineage leukemia protein 4	S 861	100% (18.19)	0.9998	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00304409	Calcium-regulated heat stable protein 1	S 32	100% (36.37)	0.9998	7	3	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	S 2392	100% (42.35)	0.9998	2	7	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	1	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0
IPI00375731	Hypothetical protein DKFZp686E2459	S 803	100% (27.94)	0.9998	2	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220754	Isoform 1 of Gamma-adducin	S 641	100% (36.01)	0.9998	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	S 161	100% (36.05)	0.9998	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00006171	Isoform 2 of Nuclear factor related to kappa-B-binding protein	S 253	100% (18.04)	0.9998	2	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00218323	Tumor protein D52	S 131	100% (18.04)	0.9998	2	6	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0
IPI00472161	Isoform 1 of Nuclear factor related to kappa-B-binding protein	S 228	100% (18.04)	0.9998	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00479248	Isoform 3 of Nuclear factor related to kappa-B-binding protein	S 228	100% (18.04)	0.9998	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00619958	tumor protein D52 isoform 1	S 171	100% (18.04)	0.9998	2	6	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0
IPI00333913	neuroblastoma-amplified protein	S 475	100% (36.05)	0.9998	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00020719	Isoform 1 of Mitochondrial antiviral signaling protein	S 222	100% (36.05)	0.9998	5	4	1	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0
IPI00032064	Isoform A of A-kinase anchor protein 2	S 979	100% (36.05)	0.9998	2	8	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	1	0	1	1	0	0	1	0	0	1	0
IPI00144293	Isoform 1 of YTH domain-containing protein 1	S 146	100% (36.05)	0.9998	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00171217	Isoform B of A-kinase anchor protein 2	S 979	100% (36.05)	0.9998	2	8	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	1	0	1	1	0	0	1	0	0	1	0
IPI00328798	DLNB11 protein	S 118	100% (36.05)	0.9998	2	3	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00465433	A kinase (PRKA) anchor protein 2	S 837	100% (36.05)	0.9998	2	8	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	1	0	1	1	0	0	1	0	0	1	0
IPI00014893	Isoform 2 of Nuclear distribution protein nudE homolog 1	S 282	100% (18.00)	0.9997	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00024167	ABT1-associated protein	S 150	100% (18.00)	0.9997	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00003843	Isoform A1 of Tight junction protein ZO-2	S 1067	100% (39.00)	0.9997	19	17	3	3	0	0	1	0	3	2	0	1	0	0	2	3	1	0	0	0	3	3	0	1	0	0	2	1	0	1	0	0	3	2	0	1	0	0
IPI00171475	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 interacting protein	S 92	100% (26.57)	0.9997	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00171390	CDNA FLJ34719 fis, clone MESAN2005689, weakly similar to SPLICING FACTOR, ARGININE/SERINE-RICH	S 193	100% (22.26)	0.9997	3	3	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00021766	Isoform 1 of Reticulon-4	S 7	100% (38.26)	0.9997	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00298289	Isoform 2 of Reticulon-4	S 7	100% (38.26)	0.9997	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00478442	reticulon 4 isoform D	S 7	100% (38.26)	0.9997	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00294742	HDCMA18P protein	S 258	100% (40.62)	0.9997	2	5	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	0	0	0	1	0	0	0	0
IPI00010586	TATA element modulatory factor	S 344	100% (38.86)	0.9997	5	6	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00607645	Sin3 histone deacetylase corepressor complex component SDS3	S 53	100% (20.41)	0.9997	6	4	0	0	0	2	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00375843	Hypothetical protein DKFZp686J1375	S 486	100% (38.72)	0.9997	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00431749	Keratin b20	S 451	100% (38.72)	0.9997	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00293338	SMC5 structural maintenance of chromosomes 5-like 1	S 35	100% (38.55)	0.9997	4	1	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413265	SMC5 protein	S 35	100% (38.55)	0.9997	4	1	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218753	Isoform 3 of DNA topoisomerase 2-alpha	S 1561	100% (17.75)	0.9997	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00218754	Isoform 4 of DNA topoisomerase 2-alpha	S 1606	100% (17.75)	0.9997	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00414101	Isoform 2 of DNA topoisomerase 2-alpha	S 1552	100% (17.75)	0.9997	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00478232	Isoform 1 of DNA topoisomerase 2-alpha	S 1562	100% (17.75)	0.9997	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00375124	Ubiquitin carboxyl-terminal hydrolase 42	S 1166	100% (35.47)	0.9997	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 353	100% (29.40)	0.9997	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
IPI00175146	hypothetical protein LOC196441	S 1046	100% (38.26)	0.9997	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00178047	Proline and glutamic acid rich nuclear protein isoform	S 479	100% (38.26)	0.9997	10	10	2	1	1	0	0	0	2	2	0	0	0	0	1	1	0	0	0	0	2	2	0	0	0	0	1	2	1	0	0	0	1	1	0	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	S 853	100% (38.26)	0.9997	10	4	3	0	0	0	0	0	5	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00555610	313 kDa protein	S 2802	100% (40.00)	0.9997	37	45	1	1	2	2	5	1	1	2	3	2	2	1	3	1	3	3	4	0	3	3	2	3	2	1	3	3	2	5	2	1	3	2	2	4	3	1
IPI00472779	Ankyrin-3	S 4342	100% (38.20)	0.9997	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00478210	ankyrin 3 isoform 1	S 4342	100% (38.20)	0.9997	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00465050	Isoform C of Lethal(2) giant larvae protein homolog 2	S 965	100% (30.83)	0.9997	16	16	3	3	0	0	0	0	3	3	0	0	0	0	3	1	0	0	0	0	4	1	0	0	0	0	3	3	0	0	0	0	3	2	0	0	0	0
IPI00641801	Isoform A of Lethal(2) giant larvae protein homolog 2	S 965	100% (30.83)	0.9997	16	16	3	3	0	0	0	0	3	3	0	0	0	0	3	1	0	0	0	0	4	1	0	0	0	0	3	3	0	0	0	0	3	2	0	0	0	0
IPI00001735	nuclear receptor co-repressor 2	S 1868	100% (35.16)	0.9997	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00032236	Isoform 2 of Angiomotin-like protein 2	S 760	100% (38.16)	0.9997	2	3	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
IPI00083708	HBxAg transactivated protein 2	S 781	100% (38.16)	0.9997	2	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00478030	Isoform 1 of Angiomotin-like protein 2	S 759	100% (38.16)	0.9997	2	3	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
IPI00657953	triple functional domain	S 2459	100% (38.16)	0.9997	3	6	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0
IPI00739117	HBxAg transactivated protein 2	S 779	100% (38.16)	0.9997	2	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00306406	Serine/threonine-protein kinase RIO2	S 382	100% (38.16)	0.9997	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0
IPI00433194	EHBP1 protein	S 171	100% (40.80)	0.9997	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00759546	Isoform 5 of Afadin	S 1731	100% (38.16)	0.9997	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00006900	Something about silencing protein 10	S 37	100% (42.12)	0.9997	4	3	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00306195	CDNA FLJ30949 fis, clone HCASM1000021, weakly similar to Plasmodium berghei strain NYU2 merozoite	S 223	100% (34.49)	0.9997	4	2	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00549786	AKT1S1 protein	S 203	100% (34.49)	0.9997	4	2	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0
IPI00014298	Periodic tryptophan protein 1 homolog	S 59	100% (38.03)	0.9997	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00385054	PWP1 protein	S 59	100% (38.03)	0.9997	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00289344	Isoform 1 of Nuclear receptor corepressor 1	S 1472	100% (38.03)	0.9997	1	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00250716	Isoform B of Bromodomain and WD-repeat domain-containing protein 1	S 2020	100% (34.90)	0.9997	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00289944	Isoform A of Bromodomain and WD-repeat domain-containing protein 1	S 2020	100% (34.90)	0.9997	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746752	Isoform C of Bromodomain and WD-repeat domain-containing protein 1	S 2020	100% (34.90)	0.9997	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00006196	Isoform 2 of Nuclear mitotic apparatus protein 1	S 1848	100% (41.94)	0.9997	5	4	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00292771	Isoform 1 of Nuclear mitotic apparatus protein 1	S 1862	100% (41.94)	0.9997	5	4	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00014537	Calumenin precursor	S 52	100% (17.43)	0.9997	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00295022	NK-tumor recognition protein	S 347	100% (25.95)	0.9997	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00302917	AT rich interactive domain 4B isoform 2	S 589	100% (37.78)	0.9997	3	5	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0
IPI00328828	AT rich interactive domain 4B isoform 1	S 675	100% (37.78)	0.9997	3	5	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0
IPI00179890	Isoform B of Ras-GTPase-activating protein-binding protein 2	S 149	100% (18.21)	0.9997	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00021175	Cell division cycle 2-related protein kinase 7	S 276	100% (41.57)	0.9997	5	4	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0
IPI00414481	Isoform 1 of General transcription factor 3C polypeptide 1	S 1866	100% (39.30)	0.9996	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
IPI00414482	Isoform 2 of General transcription factor 3C polypeptide 1	S 1886	100% (39.30)	0.9996	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
IPI00020513	Zyxin	S 327	100% (37.54)	0.9996	6	12	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	1	2	1	0	0	0	2	2	2	0	0	0	1	1	0	0	0
IPI00386211	family with sequence similarity 44, member A	S 266	100% (37.54)	0.9996	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00396557	ZYX protein	S 277	100% (37.54)	0.9996	6	12	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	1	2	1	0	0	0	2	2	2	0	0	0	1	1	0	0	0
IPI00183794	zinc finger protein 265 isoform 2	S 305	100% (34.49)	0.9996	5	6	0	0	1	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	1	1	0	0	0
IPI00749302	Hypothetical protein DKFZp686L20116	S 115	100% (32.69)	0.9996	3	2	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0
IPI00413144	Hypothetical protein DKFZp686B18208	S 1001	100% (37.41)	0.9996	2	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 867	100% (33.80)	0.9996	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 872	100% (33.80)	0.9996	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010906	CLN3 protein	S 14	100% (17.25)	0.9996	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00249080	Isoform 2 of N-acetylserotonin O-methyltransferase-like protein	S 223	100% (41.85)	0.9996	6	3	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00479385	acetylserotonin O-methyltransferase-like	S 240	100% (41.85)	0.9996	6	3	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00641757	Acetylserotonin O-methyltransferase-like	S 223	100% (41.85)	0.9996	6	3	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00003406	Drebrin	S 141	100% (17.08)	0.9996	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00295624	drebrin 1 isoform b	S 144	100% (17.08)	0.9996	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00419791	hypothetical protein LOC65117 isoform a	S 17	100% (17.08)	0.9996	3	6	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	1	0	0	0	0	1	1	0	0	0
IPI00470596	Isoform 1 of Zinc finger protein 638	S 1401	100% (17.08)	0.9996	6	8	1	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0
IPI00607784	Isoform 3 of Zinc finger protein 638	S 1401	100% (17.08)	0.9996	6	8	1	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0
IPI00645814	KIAA1187 protein	S 704	100% (17.08)	0.9996	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00654605	Hypothetical protein RPRC1	S 742	100% (17.08)	0.9996	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00174962	Molecule interacting with Rab13	S 486	100% (34.15)	0.9996	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216952	Isoform C of Lamin-A/C	S 301	100% (34.15)	0.9996	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00217797	C1orf174 protein (Fragment)	S 171	100% (41.09)	0.9996	4	4	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0
IPI00513779	Novel protein	S 148	100% (41.09)	0.9996	4	4	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0
IPI00219754	Isoform 2 of Liprin-alpha-1	S 239	100% (33.98)	0.9996	9	6	1	2	1	0	0	0	1	2	1	0	0	0	0	1	0	0	0	0	1	2	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00304875	Isoform 1 of HIRA-interacting protein 3	S 330	100% (34.08)	0.9996	2	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00166512	stromal interaction molecule 1 precursor	S 608	100% (40.04)	0.9996	9	5	1	1	2	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00299063	Stromal interaction molecule 1 precursor	S 608	100% (40.04)	0.9996	9	5	1	1	2	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00001813	CTD-binding SR-like protein rA9	S 915	100% (20.17)	0.9996	12	17	2	2	0	0	0	0	3	2	0	0	0	0	1	2	0	0	0	0	2	2	1	1	0	0	2	2	1	0	0	0	2	2	1	1	0	0
IPI00028493	Isoform 1 of Tuberin	S 1132	100% (17.01)	0.9996	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00033561	Isoform 1 of RNA-binding protein with serine-rich domain 1	S 27	100% (17.01)	0.9996	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00154515	Smad nuclear-interacting protein 1	S 396	100% (17.01)	0.9996	2	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00170594	transcription factor ELYS	S 1953	100% (17.01)	0.9996	4	5	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00170786	WW domain-binding protein 11	S 237	100% (17.01)	0.9996	6	5	0	0	1	0	0	0	0	2	1	0	0	0	1	0	1	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0
IPI00217957	ELYS transcription factor-like protein TMBS62	S 1980	100% (17.01)	0.9996	4	5	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00218883	Isoform 4 of Tuberin	S 1132	100% (17.01)	0.9996	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00398505	Ubiquitin carboxyl-terminal hydrolase 24	S 2604	100% (17.01)	0.9996	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
IPI00464952	Splicing factor arginine/serine-rich 11	S 207	100% (17.01)	0.9996	5	9	0	0	1	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0	0	2	0	0	0
IPI00641287	Splicing factor p54	S 207	100% (17.01)	0.9996	5	9	0	0	1	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0	0	2	0	0	0
IPI00641842	Splicing factor, arginine¥/serine-rich 11	S 147	100% (17.01)	0.9996	5	9	0	0	1	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0	0	2	0	0	0
IPI00299254	Eukaryotic translation initiation factor 5B	S 135	100% (33.98)	0.9996	25	34	7	2	0	0	0	0	6	1	0	0	0	0	8	1	0	0	0	0	4	7	1	0	0	0	4	5	0	0	0	0	8	5	0	0	0	0
IPI00337530	Isoform 1 of RalBP1-associated Eps domain-containing protein 1	S 510	100% (33.98)	0.9996	2	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00337532	Isoform 3 of RalBP1-associated Eps domain-containing protein 1	S 509	100% (33.98)	0.9996	2	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216952	Isoform C of Lamin-A/C	S 390	100% (33.81)	0.9996	1	4	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
IPI00300127	N-acetyltransferase-like protein	S 934	100% (16.95)	0.9996	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00373870	Isoform 1 of Chromodomain helicase-DNA-binding protein 3	S 597	100% (16.95)	0.9996	4	3	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00465222	chromodomain helicase DNA binding protein 3 isoform 3	S 642	100% (16.95)	0.9996	4	3	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00099834	Ubinuclein	S 660	100% (33.90)	0.9996	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00296432	Isoform 1 of IWS1-like protein	S 250	100% (17.01)	0.9996	3	4	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00005036	RNA-binding protein 5	S 621	100% (17.08)	0.9996	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219420	Structural maintenance of chromosome 3	S 1067	100% (36.83)	0.9996	18	18	4	3	0	0	0	0	3	2	0	0	0	0	4	2	0	0	0	0	3	4	0	0	0	0	3	3	0	0	0	0	2	3	0	0	0	0
IPI00337315	Isoform 1 of Retinoblastoma-binding protein 6	S 244	100% (33.81)	0.9996	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00376283	Isoform 2 of Retinoblastoma-binding protein 6	S 244	100% (33.81)	0.9996	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00382585	182 kDa protein	S 67	100% (33.81)	0.9996	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00005614	Isoform Long of Spectrin beta chain, brain 1	S 2102	100% (33.81)	0.9996	5	3	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
IPI00018274	Isoform 1 of Epidermal growth factor receptor precursor	S 1166	100% (33.81)	0.9996	5	5	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00657687	Isoform 1 of Actin-binding protein anillin	S 485	100% (33.81)	0.9996	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00743594	124 kDa protein	S 486	100% (33.81)	0.9996	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00104050	Thyroid hormone receptor-associated protein 3	S 682	100% (33.81)	0.9996	8	14	3	1	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	1	1	0	2	0	0	2	1	1	0	0	0	2	2	2	0	0	0
IPI00150057	Isoform 2 of SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily C me	S 304	100% (27.16)	0.9996	6	5	1	1	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00216047	Isoform 1 of SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily C me	S 304	100% (27.16)	0.9996	6	5	1	1	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00419100	Isoform 1 of FYVE, RhoGEF and PH domain-containing protein 6	S 1197	100% (36.75)	0.9996	2	5	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00166680	Isoform 3 of Misshapen-like kinase 1	S 763	100% (36.68)	0.9996	5	2	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00399254	OTU domain containing 4 protein isoform 1	S 377	100% (33.65)	0.9996	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00185769	Isoform Beta of ATP-dependent DNA helicase Q5	S 491	100% (17.28)	0.9996	2	3	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0
IPI00300384	Receptor tyrosine-protein kinase erbB-2 precursor	S 1107	100% (33.56)	0.9996	5	6	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00654851	erbB-2 isoform b	S 1077	100% (33.56)	0.9996	5	6	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00303063	SCC-112 protein	S 1195	100% (38.32)	0.9996	1	4	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00009504	Leukemia virus receptor 2	S 256	100% (33.54)	0.9996	10	11	2	1	1	0	0	0	0	2	0	0	0	0	2	1	1	0	0	0	2	1	0	0	0	0	1	2	0	0	0	0	2	1	1	1	0	0
IPI00409635	KIAA1228 protein	S 38	100% (33.54)	0.9996	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00292059	Nuclear pore complex protein Nup153	S 192	100% (33.54)	0.9996	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00292059	Nuclear pore complex protein Nup153	S 614	100% (33.54)	0.9996	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00480157	154 kDa protein	S 192	100% (33.54)	0.9996	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00480157	154 kDa protein	S 614	100% (33.54)	0.9996	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00514528	nucleoporin 153kDa	S 192	100% (33.54)	0.9996	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514528	nucleoporin 153kDa	S 614	100% (33.54)	0.9996	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00006038	Isoform 1 of Nuclear pore complex protein Nup98-Nup96 precursor	S 612	100% (16.76)	0.9996	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00011689	Elongation factor 2 kinase	S 474	100% (38.26)	0.9996	6	6	0	2	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0
IPI00295425	BC282485_1	S 376	100% (36.47)	0.9995	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00170594	transcription factor ELYS	S 1292	100% (36.47)	0.9995	5	6	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00217957	ELYS transcription factor-like protein TMBS62	S 1318	100% (36.47)	0.9995	5	6	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00006196	Isoform 2 of Nuclear mitotic apparatus protein 1	S 1743	100% (38.16)	0.9995	21	24	3	1	1	1	1	0	3	1	2	1	1	1	3	1	0	1	0	0	3	1	0	0	1	1	5	1	1	0	0	1	5	2	1	1	0	1
IPI00292771	Isoform 1 of Nuclear mitotic apparatus protein 1	S 1757	100% (38.16)	0.9995	21	24	3	1	1	1	1	0	3	1	2	1	1	1	3	1	0	1	0	0	3	1	0	0	1	1	5	1	1	0	0	1	5	2	1	1	0	1
IPI00759546	Isoform 5 of Afadin	S 1789	100% (38.16)	0.9995	15	10	3	1	0	1	0	0	3	0	0	0	0	0	4	1	1	1	0	0	1	1	1	0	0	0	1	0	1	0	1	0	3	0	1	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 297	100% (38.16)	0.9995	11	7	1	1	1	1	0	0	1	1	0	1	0	0	2	1	0	1	0	0	1	1	0	0	0	0	1	1	1	0	0	0	1	0	1	0	0	0
IPI00011461	Isoform Beta of Striatin-3	S 257	100% (36.37)	0.9995	3	4	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
IPI00008918	Isoform Beta of LIM domain and actin-binding protein 1	S 490	100% (16.66)	0.9995	12	19	2	1	1	1	1	0	1	0	0	0	1	0	1	1	1	1	0	0	2	1	1	1	1	0	0	2	2	1	1	1	2	0	1	1	1	1
IPI00170596	Paired amphipathic helix protein Sin3a	S 10	100% (16.66)	0.9995	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR															
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00646469	WDR26 protein (Fragment)	S 114	100% (16.64)	0.9995	2	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0
IPI00025330	Isoform 2 of Cyclin-L1	S 129	100% (38.16)	0.9995	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00654682	Isoform 1 of Cyclin-L1	S 335	100% (38.16)	0.9995	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00654740	Isoform 3 of Cyclin-L1	S 108	100% (38.16)	0.9995	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00746320	3-phosphoinositide dependent protein kinase-1 variant (Fragment)	S 279	100% (38.03)	0.9995	9	6	0	0	1	1	0	0	0	1	3	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	3	0	0	0
IPI00554761	Nonhistone chromosomal protein HMG-14	S 85	100% (16.66)	0.9995	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	0
IPI00020719	Isoform 1 of Mitochondrial antiviral signaling protein	S 152	100% (40.20)	0.9995	7	11	0	0	2	1	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	1	3	0	0	0	0	1	3	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1318	100% (33.19)	0.9995	4	4	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00008531	REST corepressor 1	S 457	100% (36.20)	0.9995	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0
IPI00175136	RNA binding motif protein 15B	S 562	100% (41.08)	0.9995	1	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0
IPI00300384	Receptor tyrosine-protein kinase erbB-2 precursor	S 998	100% (36.20)	0.9995	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00654851	erbB-2 isoform b	S 968	100% (36.20)	0.9995	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00032491	Inner nuclear membrane protein Man1	S 261	100% (35.45)	0.9995	2	2	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00375330	wings apart-like homolog	S 221	100% (30.83)	0.9995	13	14	0	0	1	2	0	0	2	1	1	2	0	0	2	0	1	1	0	0	2	0	1	1	0	0	2	1	0	2	0	0	2	0	1	2	0	0
IPI00412441	Hypothetical protein KIAA0261	S 306	100% (30.83)	0.9995	13	14	0	0	1	2	0	0	2	1	1	2	0	0	2	0	1	1	0	0	2	0	1	1	0	0	2	1	0	2	0	0	2	0	1	2	0	0
IPI00744918	FOE	S 265	100% (30.83)	0.9995	13	14	0	0	1	2	0	0	2	1	1	2	0	0	2	0	1	1	0	0	2	0	1	1	0	0	2	1	0	2	0	0	2	0	1	2	0	0
IPI00386170	Sperm specific antigen 2	S 466	100% (40.07)	0.9995	3	4	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00027152	Centromere protein A	S 19	100% (36.05)	0.9995	2	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	0
IPI00386842	CENPA protein	S 19	100% (36.05)	0.9995	2	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	0
IPI00038698	Retinoblastoma-associated protein RAP140	S 277	100% (36.05)	0.9995	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00335634	Isoform Beta of Paxillin	S 258	100% (36.05)	0.9995	5	2	1	0	1	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00169307	Rho GTPase activating protein 21	S 1098	100% (36.01)	0.9995	6	4	2	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
IPI00029019	Ubiquitin-associated protein 2-like	S 418	100% (36.01)	0.9995	3	2	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 1028	100% (36.01)	0.9995	8	8	2	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0
IPI00412535	115 kDa protein	S 418	100% (36.01)	0.9995	3	2	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514856	Ubiquitin associated protein 2-like	S 416	100% (36.01)	0.9995	3	2	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 1033	100% (36.01)	0.9995	8	8	2	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0
IPI00175146	hypothetical protein LOC196441	S 1304	100% (37.54)	0.9995	5	6	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0
IPI00008422	Isoform 2 of SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A co	S 127	100% (37.57)	0.9995	5	4	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00220119	Isoform 1 of SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A co	S 127	100% (37.57)	0.9995	5	4	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00002186	Brefeldin A-inhibited guanine nucleotide-exchange protein 2	S 1525	100% (32.83)	0.9995	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00654555	NOL1 protein	S 766	100% (39.78)	0.9995	10	13	2	2	0	0	0	0	1	2	0	0	0	0	2	1	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	3	0	0	0
IPI00291607	Inositol 1,4,5-trisphosphate receptor type 3	S 934	100% (37.54)	0.9995	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00045511	Mid-1-related chloride channel 1	S 509	100% (37.54)	0.9995	2	4	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0
IPI00103756	Mid-1-related chloride channel 4	S 324	100% (37.54)	0.9995	2	4	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0
IPI00103757	Mid-1-related chloride channel 3	S 388	100% (37.54)	0.9995	2	4	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0
IPI00396547	Mid-1-related chloride channel 1	S 459	100% (37.54)	0.9995	2	4	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0
IPI00465050	Isoform C of Lethal(2) giant larvae protein homolog 2	S 961	100% (20.41)	0.9995	7	5	2	1	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00641801	Isoform A of Lethal(2) giant larvae protein homolog 2	S 961	100% (20.41)	0.9995	7	5	2	1	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00170594	transcription factor ELYS	S 1169	100% (38.75)	0.9995	6	5	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00217957	ELYS transcription factor-like protein TMBS62	S 1195	100% (38.75)	0.9995	6	5	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00012773	Isoform Long of Metastasis-associated protein MTA1	S 386	100% (16.36)	0.9995	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
IPI00083708	HBxAg transactivated protein 2	S 2145	100% (16.36)	0.9995	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00220739	Membrane-associated progesterone receptor component 1	S 53	100% (16.36)	0.9995	3	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00739117	HBxAg transactivated protein 2	S 2143	100% (16.36)	0.9995	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00289344	Isoform 1 of Nuclear receptor corepressor 1	S 2184	100% (38.72)	0.9995	9	9	2	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0
IPI00178352	Isoform 1 of Filamin-C	S 2233	100% (32.69)	0.9995	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00413958	Isoform 2 of Filamin-C	S 2200	100% (32.69)	0.9995	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00179016	Histone-lysine N-methyltransferase, H3 lysine-4 specific SET1	S 470	100% (39.66)	0.9995	3	1	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00439948	Isoform 1 of RelA-associated inhibitor	S 567	100% (32.63)	0.9995	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	2	0	0	0
IPI00002232	Isoform 1 of Serine/threonine-protein kinase TAO1	S 421	100% (32.54)	0.9994	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00328293	Serine¥/arginine repetitive matrix 1	S 558	100% (35.89)	0.9994	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00004970	Small subunit processome component 20 homolog	S 1993	100% (24.44)	0.9994	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00738219	PREDICTED: similar to Down-regulated in metastasis protein	S 1993	100% (24.44)	0.9994	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00185371	CDNA FLJ40432 fis, clone TESTI2039227	S 35	100% (32.44)	0.9994	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00409671	DEAD box polypeptide 42 protein	S 829	100% (23.57)	0.9994	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00217797	C1orf174 protein (Fragment)	S 168	100% (39.35)	0.9994	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00513779	Novel protein	S 145	100% (39.35)	0.9994	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00294879	Ran GTPase-activating protein 1	S 442	100% (35.30)	0.9994	3	7	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	1	2	0	0	0
IPI00411570	KIAA1835 protein (Fragment)	S 478	100% (35.30)	0.9994	3	7	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	1	2	0	0	0
IPI00001813	CTD-binding SR-like protein rA9	S 1095	100% (39.30)	0.9994	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00328688	Isoform 1 of Sex comb on midleg-like protein 2	S 267	100% (39.30)	0.9994	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1727	100% (23.57)	0.9994	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00028122	Isoform 1 of PC4 and SFRS1-interacting protein	S 129	100% (32.22)	0.9994	1	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0
IPI00298696	Treacle protein	S 304	100% (35.19)	0.9994	35	32	2	2	4	2	1	0	4	4	4	1	1	0	4	3	1	1	1	0	3	5	3	0	1	0	4	2	2	1	1	0	2	3	3	1	1	0
IPI00747047	Treacle major isoform	S 381	100% (35.19)	0.9994	35	32	2	2	4	2	1	0	4	4	4	1	1	0	4	3	1	1	1	0	3	5	3	0	1	0	4	2	2	1	1	0	2	3	3	1	1	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00179473	Isoform 1 of Sequestosome-1	S 272	100% (38.16)	0.9994	14	14	0	0	3	1	0	0	0	0	3	2	0	0	0	0	3	2	0	0	0	1	2	1	0	0	0	1	3	2	0	0	0	1	3	0	0	0
IPI00289776	Isoform 1 of Probable ubiquitin ligase protein MYCBP2	S 2833	100% (38.16)	0.9994	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00472794	FCH domain only 2	S 537	100% (38.16)	0.9994	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00607852	Isoform 2 of Probable ubiquitin ligase protein MYCBP2	S 2833	100% (38.16)	0.9994	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00651643	Isoform 2 of Sequestosome-1	S 272	100% (38.16)	0.9994	14	14	0	0	3	1	0	0	0	0	3	2	0	0	0	0	3	2	0	0	0	1	2	1	0	0	0	1	3	2	0	0	0	1	3	0	0	0
IPI00007729	Isoform 1 of Nucleolar protein 7	S 133	100% (36.89)	0.9994	2	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0
IPI00164481	Isoform 2 of Double-stranded RNA-binding protein Staufen homolog 2	S 384	100% (32.11)	0.9994	2	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00300789	Isoform 1 of Double-stranded RNA-binding protein Staufen homolog 2	S 416	100% (32.11)	0.9994	2	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00640881	Isoform 3 of Double-stranded RNA-binding protein Staufen homolog 2	S 384	100% (32.11)	0.9994	2	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00644299	Isoform 4 of Double-stranded RNA-binding protein Staufen homolog 2	S 219	100% (32.11)	0.9994	2	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00030976	Isoform 1 of High-affinity cAMP-specific and IBMX-insensitive 3',5'-cyclic phosphodiesterase 8A	S 457	100% (35.11)	0.9994	3	3	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00182447	Isoform 2 of High-affinity cAMP-specific and IBMX-insensitive 3',5'-cyclic phosphodiesterase 8A	S 411	100% (35.11)	0.9994	3	3	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00218162	Isoform 4-5 of High-affinity cAMP-specific and IBMX-insensitive 3',5'-cyclic phosphodiesterase 8A	S 210	100% (35.11)	0.9994	3	3	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00032355	Pumilio homolog 1	S 745	100% (36.83)	0.9994	13	10	2	1	2	0	0	0	3	1	2	0	0	0	1	1	0	0	0	0	3	1	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0
IPI00551014	Isoform 1 of Pumilio homolog 1	S 709	100% (36.83)	0.9994	13	10	2	1	2	0	0	0	3	1	2	0	0	0	1	1	0	0	0	0	3	1	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0
IPI00646054	Pumilio homolog 1	S 710	100% (36.83)	0.9994	13	10	2	1	2	0	0	0	3	1	2	0	0	0	1	1	0	0	0	0	3	1	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0
IPI00028888	Isoform 1 of Heterogeneous nuclear ribonucleoprotein D0	S 80	100% (31.84)	0.9994	9	9	0	0	2	1	0	0	0	0	2	0	0	1	0	0	3	0	0	0	0	0	1	3	0	0	0	0	2	1	0	0	0	0	1	1	0	0
IPI00220684	Isoform 3 of Heterogeneous nuclear ribonucleoprotein D0	S 80	100% (31.84)	0.9994	9	9	0	0	2	1	0	0	0	0	2	0	0	1	0	0	3	0	0	0	0	0	1	3	0	0	0	0	2	1	0	0	0	0	1	1	0	0
IPI00152881	Shroom-related protein	S 438	100% (31.95)	0.9994	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00656088	Isoform 1 of Ras-associated and pleckstrin homology domains-containing protein 1	S 664	100% (36.70)	0.9994	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00296291	HP1-BP74	S 249	100% (15.92)	0.9993	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00642238	Hypothetical protein DKFZp434I0612	S 251	100% (15.92)	0.9993	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00646486	HP1-BP74	S 211	100% (15.92)	0.9993	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00744429	61 kDa protein	S 249	100% (15.92)	0.9993	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00444371	WD repeat domain 44 protein	S 96	100% (31.84)	0.9993	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00552345	WD repeat domain 44	S 96	100% (31.84)	0.9993	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00747740	Hypothetical protein DKFZp686F0572	S 96	100% (31.84)	0.9993	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00384202	Isoform 1 of Probable JmjC domain-containing histone demethylation protein 2C	S 639	100% (15.92)	0.9993	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1415	100% (36.91)	0.9993	4	5	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00425404	Isoform 1 of Kinesin family member 21A	S 1239	100% (15.83)	0.9993	2	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00425405	Isoform 2 of Kinesin family member 21A	S 1226	100% (15.83)	0.9993	2	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00425407	Isoform 3 of Kinesin family member 21A	S 1240	100% (15.83)	0.9993	2	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00425409	Isoform 4 of Kinesin family member 21A	S 1239	100% (15.83)	0.9993	2	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00010700	Isoform 1 of Large proline-rich protein BAT2	S 759	100% (34.59)	0.9993	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00084746	229 kDa protein	S 759	100% (34.59)	0.9993	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00376933	HLA-B associated transcript-2 isoform b	S 747	100% (34.59)	0.9993	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00742934	HLA-B associated transcript-2 isoform a	S 759	100% (34.59)	0.9993	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00735918	PREDICTED: similar to fat3	S 4410	100% (36.42)	0.9993	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00383396	Isoform 1 of Autophagy-related protein 9A	S 738	100% (16.66)	0.9993	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00022228	Vigilin	S 31	100% (36.33)	0.9993	8	7	1	1	0	0	0	0	1	1	0	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00418313	Isoform 4 of Interleukin enhancer-binding factor 3	S 482	100% (34.56)	0.9993	5	4	1	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
IPI00000728	Isoform 1 of Ubiquitin carboxyl-terminal hydrolase 15	S 229	100% (34.56)	0.9993	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00294435	step II splicing factor SLU7	S 235	100% (31.52)	0.9993	8	7	0	1	1	1	0	0	1	1	1	0	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00289746	Isoform 2 of Serine/threonine-protein kinase PAK 1	S 174	100% (36.28)	0.9993	7	6	0	0	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0
IPI00656138	Isoform 1 of Serine/threonine-protein kinase PAK 1	S 174	100% (36.28)	0.9993	7	6	0	0	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0
IPI00176532	Isoform 1 of Junctophilin-2	S 157	100% (31.32)	0.9993	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	S 1065	100% (19.16)	0.9993	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00477535	DNA-repair protein complementing XP-G cells	S 384	100% (15.65)	0.9993	8	6	1	1	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0
IPI00106955	Hypothetical protein LOC144097	S 152	100% (16.08)	0.9993	7	4	0	0	1	1	0	0	0	0	1	1	0	0	1	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0
IPI00011891	protein kinase, AMP-activated, alpha 1 catalytic subunit isoform 1	S 486	100% (36.05)	0.9993	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00030131	thymopoietin isoform beta	S 184	100% (36.05)	0.9993	7	10	0	0	1	1	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0	1	1	1	0
IPI00181359	SFRS2-interacting protein	S 481	100% (36.05)	0.9993	9	11	4	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	3	1	0	0	0	0	3	0	0	0	0	0	4	0	0	0	0	0
IPI00410287	protein kinase, AMP-activated, alpha 1 catalytic subunit isoform 2	S 501	100% (36.05)	0.9993	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746412	129 kDa protein	S 481	100% (36.05)	0.9993	9	11	4	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	3	1	0	0	0	0	3	0	0	0	0	0	4	0	0	0	0	0
IPI00020984	Calnexin precursor	S 564	100% (31.27)	0.9993	50	40	1	6	7	1	1	0	2	6	6	0	1	0	3	7	5	2	2	0	0	6	8	1	2	0	0	5	5	2	1	0	0	4	5	0	1	0
IPI00001813	CTD-binding SR-like protein rA9	S 1371	100% (31.27)	0.9993	9	7	3	3	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 2343	100% (31.27)	0.9993	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00307591	zinc finger protein 609	S 576	100% (31.20)	0.9993	4	7	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0
IPI00306825	Isoform 1 of Tumor protein D54	S 12	100% (36.00)	0.9993	2	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
IPI00399265	tumor protein D52-like 2 isoform a	S 12	100% (36.00)	0.9993	2	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
IPI00399267	tumor protein D52-like 2 isoform c	S 12	100% (36.00)	0.9993	2	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
IPI00020418	Ras-related protein R-Ras	S 201	100% (31.22)	0.9992	3	16	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	4	0	0	0	0	0	5	0	0	0	0	0	7	0
IPI00103536	MAP-kinase activating death domain-containing protein isoform d	S 820	100% (34.15)	0.9992	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00107838	MAP-kinase activating death domain-containing protein isoform a	S 820	100% (34.15)	0.9992	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00107843	MAP-kinase activating death domain-containing protein isoform g	S 820	100% (34.15)	0.9992	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00107844	MAP-kinase activating death domain-containing protein isoform a	S 820	100% (34.15)	0.9992	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00237706	MAP-kinase activating death domain-containing protein isoform f	S 777	100% (34.15)	0.9992	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00292094	MAP-kinase activating death domain-containing protein isoform b	S 777	100% (34.15)	0.9992	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00292095	MAP-kinase activating death domain-containing protein isoform e	S 820	100% (34.15)	0.9992	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00376607	MAP-kinase activating death domain-containing protein isoform c	S 777	100% (34.15)	0.9992	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00021175	Cell division cycle 2-related protein kinase 7	S 236	100% (36.05)	0.9992	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00396015	acetyl-Coenzyme A carboxylase alpha isoform 1	S 71	100% (30.61)	0.9992	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00472339	acetyl-Coenzyme A carboxylase alpha isoform 2	S 34	100% (30.61)	0.9992	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00329200	Importin beta-3	S 670	100% (35.88)	0.9992	4	5	0	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00016580	Isoform 1 of Protein C20orf172	S 81	100% (35.79)	0.9992	4	7	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	2	0	0	0
IPI00641008	OTTHUMP00000030876	S 81	100% (35.79)	0.9992	4	7	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	2	0	0	0
IPI00644809	C20orf172 protein	S 65	100% (35.79)	0.9992	4	7	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	2	0	0	0
IPI00645304	OTTHUMP00000030877	S 65	100% (35.79)	0.9992	4	7	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	2	0	0	0
IPI00396421	Protein KIAA0776	S 458	100% (35.74)	0.9992	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220835	Protein transport protein Sec61 beta subunit	S 48	100% (33.98)	0.9992	3	3	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0
IPI00013076	Isoform 1 of FGFR1 oncogene partner	S 160	100% (33.87)	0.9992	10	19	0	0	0	4	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	1	5	1	0	0	0	1	4	1	0	0	0	1	4	1	0
IPI00305013	Isoform 2 of FGFR1 oncogene partner	S 160	100% (33.87)	0.9992	10	19	0	0	0	4	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	1	5	1	0	0	0	1	4	1	0	0	0	1	4	1	0
IPI00396634	OTTHUMP00000028561	S 1366	100% (30.85)	0.9992	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00251559	Ubiquitin-protein ligase BRE1A	S 138	100% (15.42)	0.9992	8	8	1	1	0	0	0	0	0	2	0	0	0	0	1	3	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0
IPI00737871	PREDICTED: similar to angiomotin	S 761	100% (15.42)	0.9992	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00002135	Transforming acidic coiled-coil-containing protein 3	S 71	100% (30.83)	0.9992	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00006079	Isoform 1 of Bcl-2-associated transcription factor 1	S 385	100% (30.83)	0.9992	23	20	2	6	1	0	0	0	3	4	1	0	0	0	1	3	1	0	0	1	2	4	1	0	0	1	2	4	0	0	0	1	2	2	0	0	0	1
IPI00006079	Isoform 1 of Bcl-2-associated transcription factor 1	S 496	100% (30.83)	0.9992	35	33	2	3	4	3	1	0	3	3	4	2	1	0	4	3	1	1	0	0	1	3	3	2	0	0	2	3	4	2	1	1	3	3	2	2	1	0
IPI00306406	Serine/threonine-protein kinase RIO2	S 350	100% (30.83)	0.9992	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00328293	Serine¥/arginine repetitive matrix 1	S 763	100% (30.83)	0.9992	4	4	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00413671	Isoform 2 of Bcl-2-associated transcription factor 1	S 383	100% (30.83)	0.9992	23	20	2	6	1	0	0	0	3	4	1	0	0	0	1	3	1	0	0	1	2	4	1	0	0	1	2	4	0	0	0	1	2	2	0	0	0	1
IPI00413671	Isoform 2 of Bcl-2-associated transcription factor 1	S 494	100% (30.83)	0.9992	35	33	2	3	4	3	1	0	3	3	4	2	1	0	4	3	1	1	0	0	1	3	3	2	0	0	2	3	4	2	1	1	3	3	2	2	1	0
IPI00413672	Isoform 3 of Bcl-2-associated transcription factor 1	S 383	100% (30.83)	0.9992	23	20	2	6	1	0	0	0	3	4	1	0	0	0	1	3	1	0	0	1	2	4	1	0	0	1	2	4	0	0	0	1	2	2	0	0	0	1
IPI00413672	Isoform 3 of Bcl-2-associated transcription factor 1	S 494	100% (30.83)	0.9992	35	33	2	3	4	3	1	0	3	3	4	2	1	0	4	3	1	1	0	0	1	3	3	2	0	0	2	3	4	2	1	1	3	3	2	2	1	0
IPI00555610	313 kDa protein	S 2853	100% (30.83)	0.9992	6	8	1	1	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1
IPI00028954	80 kda MCM3-associated protein	S 527	100% (33.81)	0.9992	7	8	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0
IPI00162088	Isoform 1 of TNF receptor-associated factor 4	S 426	100% (33.81)	0.9992	4	3	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00438286	Isoform 1 of LAP2 protein	S 440	100% (33.81)	0.9992	4	3	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00438287	Isoform 2 of LAP2 protein	S 440	100% (33.81)	0.9992	4	3	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00438288	Isoform 3 of LAP2 protein	S 440	100% (33.81)	0.9992	4	3	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00438290	Isoform 5 of LAP2 protein	S 440	100% (33.81)	0.9992	4	3	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00438292	Isoform 7 of LAP2 protein	S 440	100% (33.81)	0.9992	4	3	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00444788	CDNA FLJ44925 fis, clone BRAMY3014613, highly similar to Homo sapiens SH3-domain binding protein	S 198	100% (33.81)	0.9992	5	5	0	1	1	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0
IPI00445123	CDNA FLJ44592 fis, clone BLADE2002310, highly similar to Homo sapiens SH3-domain binding protein 1	S 176	100% (33.81)	0.9992	5	5	0	1	1	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0
IPI00456744	Isoform 1 of SH3 domain-binding protein 1	S 262	100% (33.81)	0.9992	5	5	0	1	1	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0
IPI00740178	TRAF4 variant 4	S 84	100% (33.81)	0.9992	4	3	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00740195	TRAF4 variant 6	S 123	100% (33.81)	0.9992	4	3	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00740636	TRAF4 variant 3	S 100	100% (33.81)	0.9992	4	3	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00743804	67 kDa protein	S 182	100% (33.81)	0.9992	5	5	0	1	1	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0
IPI00748753	153 kDa protein	S 440	100% (33.81)	0.9992	4	3	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00170934	LKB1 interacting protein	S 772	100% (30.74)	0.9992	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0
IPI00185919	Isoform 1 of La-related protein 1	S 517	100% (30.72)	0.9992	6	6	2	1	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0
IPI00384689	Hypothetical protein KIAA0251	S 779	100% (15.35)	0.9992	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00456750	Niban-like protein	S 628	100% (33.66)	0.9991	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00647286	hypothetical protein LOC64855	S 641	100% (33.66)	0.9991	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00030466	PREDICTED: hypothetical protein LOC26115 isoform 1	S 1352	100% (30.10)	0.9991	8	8	3	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0
IPI00396561	Leucine-rich repeats and calponin homology (CH) domain containing 3	S 324	100% (30.64)	0.9991	2	2	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
IPI00011592	Cytoplasmic dynein 1 light intermediate chain 2	S 446	100% (32.49)	0.9991	5	11	0	0	3	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	1	0	0	0	4	1	0	0	0
IPI00003843	Isoform A1 of Tight junction protein ZO-2	S 1068	100% (33.62)	0.9991	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00045914	Msx2-interacting protein	S 2120	100% (35.30)	0.9991	1	4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00418185	Hypothetical protein FLJ20097	S 290	100% (35.36)	0.9991	4	2	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00553067	hypothetical protein LOC55610 isoform a	S 559	100% (35.36)	0.9991	4	2	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00017297	Matrin-3	S 604	100% (32.86)	0.9991	5	2	0	1	1	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00004068	Mediator of RNA polymerase II transcription subunit 12	S 688	100% (20.41)	0.9991	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00640149	243 kDa protein	S 653	100% (20.41)	0.9991	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00745010	TNRC11 protein	S 500	100% (20.41)	0.9991	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00030781	Isoform Alpha of Signal transducer and activator of transcription 1-alpha/beta	S 727	100% (33.45)	0.9991	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00219352	cystathionine-beta-synthase	S 73	100% (33.43)	0.9991	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219649	Isoform 2 of Cystathionine beta-synthase	S 72	100% (33.43)	0.9991	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022145	Nuclear ubiquitous casein and cyclin-dependent kinases substrate	S 54	100% (33.81)	0.9991	15	9	1	1	1	2	1	0	0	1	1	3	1	0	1	0	0	1	1	0	0	0	1	1	0	0	0	0	1	3	0	0	0	0	1	2	0	0
IPI00020021	Protein DEK	S 307	100% (22.01)	0.9991	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
IPI00000861	Isoform 1 of LIM and SH3 domain protein 1	S 146	100% (35.11)	0.9991	27	26	2	1	1	3	4	0	1	1	1	3	1	0	1	1	1	4	2	0	2	1	2	2	2	0	2	1	1	4	3	0	1	1	1	2	1	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00386803	Isoform 2 of LIM and SH3 domain protein 1	S 146	100% (35.11)	0.9991	27	26	2	1	1	3	4	0	1	1	1	3	1	0	1	1	1	4	2	0	2	1	2	2	2	0	2	1	1	4	3	0	1	1	1	2	1	0
IPI00742786	36 kDa protein	S 146	100% (35.11)	0.9991	27	26	2	1	1	3	4	0	1	1	1	3	1	0	1	1	1	4	2	0	2	1	2	2	2	0	2	1	1	4	3	0	1	1	1	2	1	0
IPI00015580	formin binding protein 1-like isoform 2	S 443	100% (33.32)	0.9991	2	5	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0
IPI00028718	Formin binding protein 1-like	S 496	100% (33.32)	0.9991	2	5	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0
IPI00396015	acetyl-Coenzyme A carboxylase alpha isoform 1	S 66	100% (33.32)	0.9991	4	4	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00472339	acetyl-Coenzyme A carboxylase alpha isoform 2	S 29	100% (33.32)	0.9991	4	4	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00607808	formin binding protein 1-like isoform 1	S 443	100% (33.32)	0.9991	2	5	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0
IPI00646028	Formin binding protein 1-like	S 496	100% (33.32)	0.9991	2	5	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0
IPI00179016	Histone-lysine N-methyltransferase, H3 lysine-4 specific SET1	S 468	100% (37.23)	0.9991	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00290652	remodeling and spacing factor 1	S 1375	100% (36.20)	0.9990	7	10	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	4	0	0	0	0	0	3	1	0	0	0	0	2	0	0	0	0	0
IPI00514411	Isoform 2 of Hepatitis B virus X-associated protein	S 1334	100% (36.20)	0.9990	7	10	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	4	0	0	0	0	0	3	1	0	0	0	0	2	0	0	0	0	0
IPI00220754	Isoform 1 of Gamma-adducin	S 423	100% (36.20)	0.9990	3	4	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00401282	PREDICTED: hypothetical protein LOC23307	S 1282	100% (24.15)	0.9990	9	8	2	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0
IPI00739371	PREDICTED: similar to Golgi autoantigen, golgin subfamily A member 6	S 1287	100% (24.15)	0.9990	9	8	2	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0
IPI00215877	Isoform Short of Adenomatous polyposis coli protein	S 1992	100% (30.10)	0.9990	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00011069	Isoform 2 of Uracil-DNA glycosylase	S 23	100% (30.09)	0.9990	8	11	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	4	0	0	0	0	0	4	0	0	0	0	0	3	0	0	0	0	1	3	0	0
IPI00164672	mRNA decapping enzyme 1A	S 527	100% (36.05)	0.9990	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00022143	Isoform 1 of Protein FAM62A	S 820	100% (36.05)	0.9990	6	8	1	0	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0
IPI00102173	Ubiquitin-conjugating enzyme E2 E2	S 11	100% (36.05)	0.9990	3	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00398922	Similar to Protein phosphatase 1 regulatory subunit 14B	S 84	100% (15.01)	0.9990	3	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00012341	Isoform SRP40-1 of Splicing factor, arginine/serine-rich 5	S 233	100% (22.12)	0.9990	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00555857	CS0DF038YO05 variant (Fragment)	S 287	100% (22.12)	0.9990	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00001735	nuclear receptor co-repressor 2	S 554	100% (29.93)	0.9990	11	13	3	1	0	0	0	0	3	0	0	0	0	0	3	1	0	0	0	0	3	1	0	0	0	0	3	1	0	0	0	0	3	2	0	0	0	0
IPI00173461	Junctophilin-1	S 452	100% (15.01)	0.9990	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00246827	Isoform 1 of Protein C17orf28	S 656	100% (32.88)	0.9990	6	2	0	1	1	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00247634	Isoform 3 of Protein C17orf28	S 437	100% (32.88)	0.9990	6	2	0	1	1	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00607714	Isoform 2 of Protein C17orf28	S 652	100% (32.88)	0.9990	6	2	0	1	1	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00010653	Isoform 1 of RNA exonuclease 4	S 15	100% (14.89)	0.9990	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00023109	Chromodomain-helicase-DNA-binding protein 2	S 1365	100% (14.89)	0.9990	2	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00301936	ELAV-like protein 1	S 202	100% (29.79)	0.9990	2	3	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00031698	Hypothetical protein MGC5509	S 189	100% (34.55)	0.9989	6	19	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	0	0	0	0	0	3	3	0	0	0	0	6	2	0	0	0	0	2	3	0
IPI00386170	Sperm specific antigen 2	S 746	100% (32.69)	0.9989	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00420025	SVH-B	S 45	100% (32.77)	0.9989	5	3	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00555667	PREDICTED: similar to SVH protein	S 70	100% (32.77)	0.9989	5	3	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00431127	Isoform 1 of Cyclin-K	S 329	100% (14.89)	0.9989	1	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00294840	Absent in melanoma 1 protein	S 75	100% (33.20)	0.9989	3	10	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3	3	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00289086	Isoform 1 of Protein C20orf112	S 130	100% (38.16)	0.9989	3	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00607558	Isoform 2 of Protein C20orf112	S 130	100% (38.16)	0.9989	3	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00172590	69 kDa protein	S 567	100% (32.69)	0.9989	1	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
IPI00658145	Chromosome 7 open reading frame 27	S 742	100% (32.69)	0.9989	1	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
IPI00017450	Transcription initiation factor IIF alpha subunit	S 224	100% (32.67)	0.9989	7	12	0	0	2	1	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	2	3	0	0	0	0	1	3	0	0	0	0	1	2	0	0	0
IPI00007334	Isoform 1 of Apoptotic chromatin condensation inducer in the nucleus	S 895	100% (32.47)	0.9989	12	12	2	1	1	0	0	0	2	2	1	0	0	0	2	1	0	0	0	0	1	2	1	0	0	0	2	1	1	0	0	0	2	2	0	0	0	0
IPI00006211	VAMP-associated protein B/C	S 206	100% (34.15)	0.9988	1	6	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0
IPI00394829	hypothetical protein LOC286077	S 936	100% (34.15)	0.9988	9	10	0	1	0	1	0	0	1	0	1	1	0	0	1	1	1	1	0	0	0	1	1	0	0	0	1	1	1	0	0	0	2	2	1	0	0	0
IPI00329142	Glutamate-rich protein 1	S 238	100% (14.66)	0.9988	1	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00186194	KARP-1-binding protein	S 360	100% (29.32)	0.9988	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00301311	Isoform 2 of Protein SET	S 24	100% (29.32)	0.9988	4	4	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0
IPI00409640	LISCH protein isoform 2	S 432	100% (29.32)	0.9988	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00409641	LISCH protein isoform 3	S 364	100% (29.32)	0.9988	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00552897	Isoform 1 of Mediator of DNA damage checkpoint protein 1	S 1820	100% (29.32)	0.9988	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00641106	227 kDa protein	S 1820	100% (29.32)	0.9988	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00641640	LISCH protein isoform 1	S 413	100% (29.32)	0.9988	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00217882	Sortilin precursor	S 825	100% (29.32)	0.9988	5	5	0	0	0	0	1	0	0	0	0	0	1	0	1	1	0	0	0	1	0	1	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0	1
IPI00745935	83 kDa protein	S 735	100% (29.32)	0.9988	5	5	0	0	0	0	1	0	0	0	0	0	1	0	1	1	0	0	0	1	0	1	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0	1
IPI00454969	PHD finger protein 14	S 84	100% (29.31)	0.9988	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00472782	PHD finger protein 14 isoform 1	S 84	100% (29.31)	0.9988	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00165995	Isoform 1 of Splicing factor, arginine/serine-rich 130	S 290	100% (34.07)	0.9988	7	8	1	2	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	1	2	0	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0
IPI00159899	Ankyrin repeat and FYVE domain-containing protein 1	S 918	100% (29.30)	0.9988	2	2	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0
IPI00006103	CD2 antigen cytoplasmic tail-binding protein 2	S 195	100% (14.63)	0.9988	7	7	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	3	0	0	0	0	0	2	0	0
IPI00022215	Activity-dependent neuroprotector	S 921	100% (14.63)	0.9988	4	1	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00170594	transcription factor ELYS	S 1304	100% (14.63)	0.9988	2	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00217957	ELYS transcription factor-like protein TMBS62	S 1330	100% (14.63)	0.9988	2	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00217975	Lamin-B1	S 374	100% (14.63)	0.9988	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00306043	Isoform 1 of YTH domain protein 2	S 39	100% (14.63)	0.9988	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00334715	172 kDa protein	S 589	100% (14.63)	0.9988	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00377091	61 kDa protein	S 39	100% (14.63)	0.9988	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No. SNU 216	Total No. SNU 216LR	SNU216 1_01	SNU216 2_01	SNU216 3_01	SNU216 4_01	SNU216 5_01	SNU216 6_01	SNU216 1_02	SNU216 2_02	SNU216 3_02	SNU216 4_02	SNU216 5_02	SNU216 6_02	SNU216 1_03	SNU216 2_03	SNU216 3_03	SNU216 4_03	SNU216 5_03	SNU216 6_03	SNU216-LR 1_01	SNU216-LR 2_01	SNU216-LR 3_01	SNU216-LR 4_01	SNU216-LR 5_01	SNU216-LR 6_01	SNU216-LR 1_02	SNU216-LR 2_02	SNU216-LR 3_02	SNU216-LR 4_02	SNU216-LR 5_02	SNU216-LR 6_02	SNU216-LR 1_03	SNU216-LR 2_03	SNU216-LR 3_03	SNU216-LR 4_03	SNU216-LR 5_03	SNU216-LR 6_03
IPI00384176	Isoform 1 of Protein polybromo-1	S 1453	100% (14.63)	0.9988	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00477498	Isoform 1 of Glucocorticoid receptor DNA-binding factor 1	S 589	100% (14.63)	0.9988	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00718985	Isoform 2 of Glucocorticoid receptor DNA-binding factor 1	S 589	100% (14.63)	0.9988	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00005146	Hypothetical protein A-362G6.1	S 873	100% (29.27)	0.9988	10	4	1	2	0	0	0	0	2	2	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00154915	Isoform 1 of Partitioning-defective 3 homolog	S 852	100% (29.27)	0.9988	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00179063	Isoform 4 of Partitioning-defective 3 homolog	S 852	100% (29.27)	0.9988	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00291711	pleckstrin homology domain containing, family G, member 3	S 1025	100% (29.27)	0.9988	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00301595	Isoform 2 of Partitioning-defective 3 homolog	S 849	100% (29.27)	0.9988	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00301597	Par-3 partitioning defective 3 homolog	S 792	100% (29.27)	0.9988	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00395663	Ankyrin repeat and SAM domain-containing protein 1A	S 662	100% (29.27)	0.9988	8	5	1	1	1	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00419693	activating transcription factor 7 interacting protein	S 559	100% (29.27)	0.9988	5	2	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00010338	Tissue factor precursor	S 290	100% (29.24)	0.9988	2	7	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 552	100% (32.22)	0.9988	14	14	2	1	0	0	0	0	4	1	0	0	0	0	4	2	0	0	0	0	6	2	0	0	0	0	2	0	0	0	0	0	3	1	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 557	100% (32.22)	0.9988	14	14	2	1	0	0	0	0	4	1	0	0	0	0	4	2	0	0	0	0	6	2	0	0	0	0	2	0	0	0	0	0	3	1	0	0	0	0
IPI00295457	myosin phosphatase-Rho interacting protein isoform 1	S 365	100% (32.22)	0.9988	6	10	0	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	2	2	0	0	0	0	1	2	0	0	0	0
IPI00294840	Absent in melanoma 1 protein	S 16	100% (31.96)	0.9988	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00164861	KINESIN-13A1	S 1481	100% (14.58)	0.9988	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218490	Isoform 2 of Kinesin-like protein KIF13A	S 1494	100% (14.58)	0.9988	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00640645	OTTHUMP00000016072	S 1492	100% (14.58)	0.9988	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00749377	199 kDa protein	S 1496	100% (14.58)	0.9988	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00290652	remodeling and spacing factor 1	S 1359	100% (33.65)	0.9988	6	9	3	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	4	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0
IPI00514411	Isoform 2 of Hepatitis B virus X-associated protein	S 1318	100% (33.65)	0.9988	6	9	3	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	4	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0
IPI00398505	Ubiquitin carboxyl-terminal hydrolase 24	S 63	100% (33.92)	0.9988	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00045360	Protein capicua homolog	S 1402	100% (27.19)	0.9988	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00186711	plectin 1 isoform 6	S 4396	100% (38.16)	0.9988	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0
IPI00398002	plectin 1 isoform 1	S 4286	100% (38.16)	0.9988	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0
IPI00398779	plectin 1 isoform 11	S 4259	100% (38.16)	0.9988	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0
IPI00735918	PREDICTED: similar to fat3	S 4314	100% (29.12)	0.9988	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00180625	KIAA0284 protein	S 290	100% (29.10)	0.9988	18	12	3	1	1	0	0	0	3	1	1	0	0	0	5	2	1	0	0	0	3	0	1	0	0	0	2	1	0	0	0	0	5	0	0	0	0	0
IPI00297160	CD44 antigen isoform 4 precursor	S 316	100% (20.38)	0.9988	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00305064	Isoform CD44 of CD44 antigen precursor	S 697	100% (20.38)	0.9988	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00418465	CD44 antigen isoform 2 precursor	S 654	100% (20.38)	0.9988	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00419219	CD44 antigen isoform 3 precursor	S 448	100% (20.38)	0.9988	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00472794	FCH domain only 2	S 492	100% (35.11)	0.9988	2	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00295425	BC282485_1	S 373	100% (32.08)	0.9988	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00221106	splicing factor 3B subunit 2	S 309	100% (36.83)	0.9988	10	15	4	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	4	4	0	0	0	0	2	0	0	0	0	0	3	2	0	0	0	0
IPI00006079	Isoform 1 of Bcl-2-associated transcription factor 1	S 268	100% (33.81)	0.9988	19	17	2	2	2	1	0	0	3	1	2	0	0	0	3	2	0	1	0	0	2	3	0	2	0	0	1	1	2	1	1	0	1	3	0	0	0	0
IPI00413671	Isoform 2 of Bcl-2-associated transcription factor 1	S 266	100% (33.81)	0.9988	19	17	2	2	2	1	0	0	3	1	2	0	0	0	3	2	0	1	0	0	2	3	0	2	0	0	1	1	2	1	1	0	1	3	0	0	0	0
IPI00413672	Isoform 3 of Bcl-2-associated transcription factor 1	S 266	100% (33.81)	0.9988	19	17	2	2	2	1	0	0	3	1	2	0	0	0	3	2	0	1	0	0	2	3	0	2	0	0	1	1	2	1	1	0	1	3	0	0	0	0
IPI00425560	Isoform 1 of LAP4 protein	S 939	100% (32.05)	0.9988	3	6	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00425566	Isoform 4 of LAP4 protein	S 939	100% (32.05)	0.9988	3	6	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00304589	182 kDa tankyrase 1-binding protein	S 429	100% (35.19)	0.9988	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00064931	Isoform 2 of E1A-binding protein p400	S 700	100% (28.96)	0.9987	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00167535	344 kDa protein	S 736	100% (28.96)	0.9987	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00477005	E1A binding protein p400	S 699	100% (28.96)	0.9987	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00479168	Isoform 1 of E1A-binding protein p400	S 736	100% (28.96)	0.9987	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00748478	Isoform 4 of E1A-binding protein p400	S 700	100% (28.96)	0.9987	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00329572	Protein kinase C and casein kinase substrate in neurons protein 3	S 15	100% (14.47)	0.9987	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00001813	CTD-binding SR-like protein rA9	S 1093	100% (35.87)	0.9987	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00103867	Isoform 1 of Rififylin	S 226	100% (28.81)	0.9987	3	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00651650	Isoform 2 of Rififylin	S 226	100% (28.81)	0.9987	3	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00215965	heterogeneous nuclear ribonucleoprotein A1 isoform b	S 4	100% (15.32)	0.9987	3	5	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1
IPI00019901	Isoform 1 of Alpha-adducin	S 600	100% (28.85)	0.9987	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220158	Isoform 3 of Alpha-adducin	S 631	100% (28.85)	0.9987	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00384202	Isoform 1 of Probable JmjC domain-containing histone demethylation protein 2C	S 652	100% (28.84)	0.9987	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00019205	Protein C14orf4	S 662	100% (29.32)	0.9987	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00293845	275 kDa protein	S 784	100% (28.79)	0.9987	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00375454	Isoform 2 of Telomere-associated protein RIF1	S 784	100% (28.79)	0.9987	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00477805	Isoform 1 of Telomere-associated protein RIF1	S 782	100% (28.79)	0.9987	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00023649	MOP-3	S 793	100% (33.54)	0.9987	1	5	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00472044	Isoform 1 of GTPase-activating Rap/Ran-GAP domain-like 1	S 907	100% (16.79)	0.9987	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00386211	family with sequence similarity 44, member A	S 1531	100% (34.15)	0.9986	3	5	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0
IPI00295774	Solute carrier family 23 member 2	S 78	100% (37.31)	0.9986	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00552917	OTTHUMP00000030176	S 78	100% (37.31)	0.9986	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00017443	Absent in melanoma 1-like	S 230	100% (14.34)	0.9986	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00031698	Hypothetical protein MGC5509	S 193	100% (33.26)	0.9986	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0	0	1	1	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																				SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00748920	splicing coactivator subunit SRm300	S 1916	100% (28.47)	0.9986	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00156793	DNA-repair protein complementing XP-C cells	S 396	100% (17.91)	0.9986	4	2	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00038698	Retinoblastoma-associated protein RAP140	S 303	100% (14.34)	0.9986	3	3	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00299033	Importin alpha-3 subunit	S 56	100% (14.19)	0.9985	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00396634	OTTHUMP00000028561	S 404	100% (14.19)	0.9985	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00186966	Isoform IIA of Myc box-dependent-interacting protein 1	S 303	100% (19.90)	0.9985	9	5	0	0	4	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0
IPI00220587	Isoform BIN1+12A of Myc box-dependent-interacting protein 1	S 287	100% (19.90)	0.9985	9	5	0	0	4	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0
IPI00220996	Isoform IIB of Myc box-dependent-interacting protein 1	S 272	100% (19.90)	0.9985	9	5	0	0	4	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0
IPI00220998	Isoform II2 of Myc box-dependent-interacting protein 1	S 272	100% (19.90)	0.9985	9	5	0	0	4	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0
IPI00008917	Isoform 1 of Doublecortin domain-containing protein 2	S 433	100% (14.16)	0.9985	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0
IPI00186008	START domain containing 10	S 203	100% (30.62)	0.9985	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746279	40 kDa protein	S 202	100% (30.62)	0.9985	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00291802	Isoform 3 of LIM domain only protein 7	S 654	100% (36.05)	0.9985	7	11	1	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0	4	0	0	0	0	0
IPI00005978	Splicing factor, arginine/serine-rich 2	S 207	100% (31.27)	0.9985	4	2	0	0	0	1	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00024579	Postreplication repair protein RAD18	S 471	100% (24.16)	0.9985	1	6	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00003843	Isoform A1 of Tight junction protein ZO-2	S 431	100% (33.98)	0.9985	10	4	0	2	0	0	0	0	2	1	0	0	0	0	1	3	1	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0
IPI00004344	Isoform 1 of AF4/FMR2 family member 4	S 703	100% (28.13)	0.9985	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00293655	ATP-dependent RNA helicase DDX1	S 481	100% (28.13)	0.9985	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00383219	Isoform 2 of AF4/FMR2 family member 4	S 703	100% (28.13)	0.9985	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00398002	plectin 1 isoform 1	S 42	100% (28.13)	0.9985	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00329638	Isoform 1 of Mitogen-activated protein kinase kinase kinase MLT	S 728	100% (28.11)	0.9985	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00410693	Isoform 1 of Plasminogen activator inhibitor 1 RNA-binding protein	S 234	100% (32.86)	0.9984	10	12	0	0	2	3	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	3	3	0	0	0	0	1	1	0	0	0	0	2	2	0	0
IPI00470497	Isoform 2 of Plasminogen activator inhibitor 1 RNA-binding protein	S 228	100% (32.86)	0.9984	10	12	0	0	2	3	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	3	3	0	0	0	0	1	1	0	0	0	0	2	2	0	0
IPI00033907	Anaphase-promoting complex subunit 1	S 377	100% (28.07)	0.9984	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00006099	Ribosome biogenesis protein BMS1 homolog	S 639	100% (14.02)	0.9984	12	5	3	2	0	0	0	0	3	0	0	0	0	0	3	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0
IPI00024167	ABT1-associated protein	S 694	100% (14.02)	0.9984	3	4	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0
IPI00181359	SFRS2-interacting protein	S 587	100% (14.02)	0.9984	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00216587	40S ribosomal protein S8	S 159	100% (14.02)	0.9984	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00335634	Isoform Beta of Paxillin	S 302	100% (14.02)	0.9984	13	10	2	0	1	2	0	0	1	1	1	1	0	0	1	0	2	1	0	0	1	0	1	2	0	0	1	1	2	1	0	0	0	0	1	0	0	0
IPI00410590	Isoform 2 of Protein FAM61A	S 182	100% (14.02)	0.9984	11	7	1	0	2	1	0	0	1	0	1	1	1	0	1	0	1	0	1	0	1	0	2	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0
IPI00419933	Pleckstrin homology domain containing, family A member 2	S 177	100% (14.02)	0.9984	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00478300	Isoform 1 of Protein FAM61A	S 182	100% (14.02)	0.9984	11	7	1	0	2	1	0	0	1	0	1	1	1	0	1	0	1	0	1	0	1	0	2	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0
IPI00645201	Ribosomal protein S8	S 140	100% (14.02)	0.9984	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746412	129 kDa protein	S 587	100% (14.02)	0.9984	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00012462	CDA02	S 308	100% (21.94)	0.9984	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
IPI00008961	Telomeric repeat-binding factor 2-interacting protein 1	S 36	100% (32.80)	0.9984	2	3	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0
IPI00064666	Protein FAM84B	S 299	100% (20.05)	0.9984	4	1	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00455518	MORC family CW-type zinc finger 2	S 668	100% (30.64)	0.9984	1	4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00016861	Isoform 1 of General transcription factor 3C polypeptide 2	S 912	100% (27.99)	0.9984	2	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00410127	Transforming, acidic coiled-coil containing protein 2	S 1806	100% (20.31)	0.9984	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00643465	transforming, acidic coiled-coil containing protein 2 isoform a	S 2079	100% (20.31)	0.9984	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00021786	RAF proto-oncogene serine/threonine-protein kinase	S 43	100% (27.97)	0.9984	4	9	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	0	1	0	0	0	2	1	1	0	0	0	1	1	0	0	0	0
IPI00016580	Isoform 1 of Protein C20orf172	S 58	100% (13.98)	0.9984	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00291175	Isoform 1 of Vinculin	S 345	100% (13.98)	0.9984	2	5	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0
IPI00307162	vinculin isoform meta-VCL	S 346	100% (13.98)	0.9984	2	5	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0
IPI00641008	OTTHUMP00000030876	S 58	100% (13.98)	0.9984	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00644809	C20orf172 protein	S 42	100% (13.98)	0.9984	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00645304	OTTHUMP00000030877	S 42	100% (13.98)	0.9984	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00646885	Rho GTPase activating protein 5 isoform a	S 1218	100% (13.98)	0.9984	8	9	3	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	4	1	0	0	0	0	1	0	0	0	0	0
IPI00007334	Isoform 1 of Apoptotic chromatin condensation inducer in the nucleus	S 365	100% (27.96)	0.9984	4	8	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0
IPI00012345	Isoform SRP55-1 of Splicing factor, arginine/serine-rich 6	S 157	100% (27.96)	0.9984	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00018370	Isoform 2 of Supervillin	S 1533	100% (27.96)	0.9984	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00030466	PREDICTED: hypothetical protein LOC26115 isoform 1	S 1440	100% (27.96)	0.9984	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00170744	ETS-related transcription factor Elf-4	S 151	100% (27.96)	0.9984	8	7	0	1	1	1	0	0	0	1	1	1	0	0	0	1	0	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0
IPI00215879	Isoform SRP55-3 of Splicing factor, arginine/serine-rich 6	S 157	100% (27.96)	0.9984	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00303797	B-Raf proto-oncogene serine/threonine-protein kinase	S 446	100% (27.96)	0.9984	6	5	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0
IPI00419791	hypothetical protein LOC65117 isoform a	S 32	100% (27.96)	0.9984	17	12	1	1	4	1	0	0	1	1	3	2	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0	0	3	2	0	0	0	0	2	1	0	0
IPI00215948	Isoform 1 of Alpha-1 catenin	S 655	100% (28.13)	0.9984	13	21	1	3	0	0	0	0	0	4	0	0	0	0	1	4	0	0	0	0	1	6	0	0	0	0	0	5	1	0	0	0	1	7	0	0	0	0
IPI00217686	Putative rRNA methyltransferase 3	S 186	100% (13.97)	0.9984	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 398	100% (27.94)	0.9984	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 403	100% (27.94)	0.9984	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00012199	Hypothetical protein FLJ22321	S 18	100% (32.69)	0.9984	15	14	0	1	3	1	0	0	1	1	2	1	0	0	1	1	2	1	0	0	0	2	1	1	0	0	0	2	2	1	0	0	0	2	2	1	0	0
IPI00216230	Lamina-associated polypeptide 2 isoform alpha	S 350	100% (32.63)	0.9984	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00005036	RNA-binding protein 5	S 59	100% (30.83)	0.9984	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00030408	M-phase phosphoprotein 8	S 403	100% (30.83)	0.9984	6	8	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	1	1	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0
IPI00065931	A-kinase anchor protein 13 isoform 1	S 983	100% (30.83)	0.9984	3	5	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00180292	Isoform 5 of Brain-specific angiogenesis inhibitor 1-associated protein 2	S 325	100% (30.83)	0.9984	3	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00185159	Isoform 4 of Brain-specific angiogenesis inhibitor 1-associated protein 2	S 325	100% (30.83)	0.9984	3	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00299088	Isoform 1 of Brain-specific angiogenesis inhibitor 1-associated protein 2	S 325	100% (30.83)	0.9984	3	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00301421	Isoform 1 of Nuclear-interacting partner of ALK	S 335	100% (30.83)	0.9984	4	7	0	0	1	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	1	1	1	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0
IPI00302829	Retinoblastoma-associated protein	S 807	100% (30.83)	0.9984	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0
IPI00339382	Isoform 2 of Nuclear-interacting partner of ALK	S 314	100% (30.83)	0.9984	4	7	0	0	1	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	1	1	1	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0
IPI00644120	Isoform 2 of Brain-specific angiogenesis inhibitor 1-associated protein 2	S 325	100% (30.83)	0.9984	3	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00647603	Isoform 3 of Brain-specific angiogenesis inhibitor 1-associated protein 2	S 325	100% (30.83)	0.9984	3	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00054042	Isoform 1 of General transcription factor II-I	S 517	100% (27.83)	0.9984	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00217449	Isoform 3 of General transcription factor II-I	S 497	100% (27.83)	0.9984	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00217450	Isoform 4 of General transcription factor II-I	S 496	100% (27.83)	0.9984	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00293242	Isoform 2 of General transcription factor II-I	S 476	100% (27.83)	0.9984	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00026673	Isoform 1 of Homeobox protein cut-like 1	S 1270	100% (27.83)	0.9984	3	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00419894	Isoform 3 of Homeobox protein cut-like 1	S 1281	100% (27.83)	0.9984	3	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00472000	163 kDa protein	S 1259	100% (27.83)	0.9984	3	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00472247	Isoform 2 of Homeobox protein cut-like 1	S 1248	100% (27.83)	0.9984	3	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00736943	Isoform 5 of Homeobox protein cut-like 1	S 1168	100% (27.83)	0.9984	3	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00741668	Isoform 7 of Homeobox protein cut-like 1	S 1112	100% (27.83)	0.9984	3	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00742111	Isoform 6 of Homeobox protein cut-like 1	S 1214	100% (27.83)	0.9984	3	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00413734	Isoform 6 of Transcriptional regulator ATRX	S 718	100% (27.96)	0.9983	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220317	DNA polymerase alpha catalytic subunit	S 186	100% (33.68)	0.9983	4	3	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00647655	166 kDa protein	S 192	100% (33.68)	0.9983	4	3	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00301421	Isoform 1 of Nuclear-interacting partner of ALK	S 344	100% (33.66)	0.9983	11	10	1	0	1	1	0	0	1	1	1	1	0	0	1	1	1	1	0	0	0	2	1	0	0	0	1	1	1	0	0	0	1	1	2	0	0	0
IPI00339382	Isoform 2 of Nuclear-interacting partner of ALK	S 323	100% (33.66)	0.9983	11	10	1	0	1	1	0	0	1	1	1	1	0	0	1	1	1	1	0	0	0	2	1	0	0	0	1	1	1	0	0	0	1	1	2	0	0	0
IPI00385001	Hypothetical protein DKFZp686L1653 (Fragment)	S 1607	100% (30.64)	0.9983	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00431025	abl-interactor 1 isoform a	S 183	100% (30.64)	0.9983	8	8	0	0	1	0	0	0	1	0	1	1	1	0	0	0	2	0	1	0	0	0	2	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0
IPI00431026	Isoform 2 of Abl interactor 1	S 177	100% (30.64)	0.9983	8	8	0	0	1	0	0	0	1	0	1	1	1	0	0	0	2	0	1	0	0	0	2	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0
IPI00431027	Isoform 3 of Abl interactor 1	S 182	100% (30.64)	0.9983	8	8	0	0	1	0	0	0	1	0	1	1	1	0	0	0	2	0	1	0	0	0	2	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0
IPI00431029	Isoform 4 of Abl interactor 1	S 182	100% (30.64)	0.9983	8	8	0	0	1	0	0	0	1	0	1	1	1	0	0	0	2	0	1	0	0	0	2	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0
IPI00431030	Isoform 5 of Abl interactor 1	S 177	100% (30.64)	0.9983	8	8	0	0	1	0	0	0	1	0	1	1	1	0	0	0	2	0	1	0	0	0	2	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0
IPI00431031	Isoform 6 of Abl interactor 1	S 182	100% (30.64)	0.9983	8	8	0	0	1	0	0	0	1	0	1	1	1	0	0	0	2	0	1	0	0	0	2	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0
IPI00431032	Isoform 7 of Abl interactor 1	S 182	100% (30.64)	0.9983	8	8	0	0	1	0	0	0	1	0	1	1	1	0	0	0	2	0	1	0	0	0	2	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0
IPI00431033	Isoform 8 of Abl interactor 1	S 182	100% (30.64)	0.9983	8	8	0	0	1	0	0	0	1	0	1	1	1	0	0	0	2	0	1	0	0	0	2	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0
IPI00431034	Isoform 9 of Abl interactor 1	S 182	100% (30.64)	0.9983	8	8	0	0	1	0	0	0	1	0	1	1	1	0	0	0	2	0	1	0	0	0	2	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0
IPI00441320	Isoform 10 of Abl interactor 1	S 183	100% (30.64)	0.9983	8	8	0	0	1	0	0	0	1	0	1	1	1	0	0	0	2	0	1	0	0	0	2	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0
IPI00477040	nucleoporin 188kDa	S 1717	100% (30.64)	0.9983	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00179757	Kinesin-like protein KIF1C	S 915	100% (30.52)	0.9982	2	6	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	0	0	0	0	0
IPI00008422	Isoform 2 of SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A cor	S 124	100% (32.22)	0.9982	5	4	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00220119	Isoform 1 of SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A cor	S 124	100% (32.22)	0.9982	5	4	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00295425	BC282485_1	S 336	100% (17.01)	0.9982	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00640318	Hypothetical protein FLJ23236	S 27	100% (26.31)	0.9982	4	13	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	3	2	0	0	0	0	3	2	0	0	0	0	3	0	0	0	0	0
IPI00337335	Isoform 1 of Myosin-14	S 1970	100% (27.41)	0.9982	5	6	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0
IPI00607778	Isoform 4 of Myosin-14	S 1753	100% (27.41)	0.9982	5	6	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0
IPI00607818	Isoform 2 of Myosin-14	S 2002	100% (27.41)	0.9982	5	6	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0
IPI00017297	Matrin-3	S 188	100% (30.39)	0.9982	26	34	2	4	1	2	0	0	3	3	2	1	0	0	2	3	1	2	0	0	2	4	1	2	0	0	3	6	2	2	1	0	2	5	2	2	0	0
IPI00409671	DEAD box polypeptide 42 protein	S 831	100% (18.61)	0.9982	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00291916	pleckstrin homology domain interacting protein	S 645	100% (32.13)	0.9982	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005139	Isoform 1 of Retinoblastoma-like protein 1	S 749	100% (32.05)	0.9981	6	9	0	1	0	0	0	0	0	2	0	1	0	0	0	1	0	1	0	0	1	1	0	1	0	0	0	2	0	1	0	0	0	2	0	1	0	0
IPI00375494	Isoform 2 of Retinoblastoma-like protein 1	S 749	100% (32.05)	0.9981	6	9	0	1	0	0	0	0	0	2	0	1	0	0	0	1	0	1	0	0	1	1	0	1	0	0	0	2	0	1	0	0	0	2	0	1	0	0
IPI00215963	hypothetical protein LOC23199	S 826	100% (26.93)	0.9981	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00477936	KIAA0182 protein	S 722	100% (26.93)	0.9981	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00013891	Isoform Long of Transformer-2 protein homolog	S 18	100% (31.27)	0.9981	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00337530	Isoform 1 of RalBP1-associated Eps domain-containing protein 1	S 118	100% (30.61)	0.9981	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00337532	Isoform 3 of RalBP1-associated Eps domain-containing protein 1	S 118	100% (30.61)	0.9981	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00165995	Isoform 1 of Splicing factor, arginine/serine-rich 130	S 321	100% (30.19)	0.9981	2	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00027172	Isoform Long of Restin	S 348	100% (27.18)	0.9981	3	6	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00217113	Isoform Short of Restin	S 348	100% (27.18)	0.9981	3	6	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00555610	313 kDa protein	S 2912	100% (34.15)	0.9981	81	112	9	5	2	5	4	2	5	6	1	4	5	3	8	7	4	1	7	3	14	7	3	8	4	3	12	9	3	7	4	4	10	10	1	6	5	2
IPI00295457	myosin phosphatase-Rho interacting protein isoform 1	S 977	100% (33.18)	0.9981	6	8	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0
IPI00064212	KIAA1802 protein (Fragment)	S 516	100% (27.16)	0.9981	3	7	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0
IPI00414497	Chromosome 13 open reading frame 8	S 507	100% (27.16)	0.9981	3	7	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0
IPI00007955	Isoform 1 of Tripartite motif protein 16	S 60	100% (31.05)	0.9981	14	14	1	1	1	1	1	0	1	1	1	0	1	0	1	1	2	1	0	0	1	1	1	1	1	0	1	1	1	1	1	0	1	1	1	0	1	0
IPI00025039	Fibrillarin	S 124	100% (27.16)	0.9981	3	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0
IPI00375358	Isoform 1 of Replication factor C subunit 1	S 368	100% (27.16)	0.9981	4	2	1	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00375359	Isoform 2 of Replication factor C subunit 1	S 368	100% (27.16)	0.9981	4	2	1	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00384202	Isoform 1 of Probable JmjC domain-containing histone demethylation protein 2C	S 317	100% (27.16)	0.9981	2	6	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00556381	Hypothetical protein (Fragment)	S 74	100% (31.05)	0.9981	14	14	1	1	1	1	1	0	1	1	1	0	1	0	1	1	2	1	0	0	1	1	1	1	1	0	1	1	1	1	1	0	1	1	1	0	1	0
IPI00003799	Isoform 2 of Heme-binding protein 2	S 160	100% (31.84)	0.9980	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00306301	Pyruvate dehydrogenase E1 component alpha subunit, somatic form, mitochondrial precursor	S 293	100% (31.84)	0.9980	9	12	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	1	4	0	0	0	0	1	4	0	0	0	0	0	2	0	0
IPI00644697	Isoform 1 of Heme-binding protein 2	S 181	100% (31.84)	0.9980	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00384357	Isoform 1 of FYVE, RhoGEF and PH domain-containing protein 3	S 128	100% (30.07)	0.9980	10	3	0	2	0	0	0	0	0	3	1	0	0	0	0	3	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413785	Isoform 2 of FYVE, RhoGEF and PH domain-containing protein 3	S 128	100% (30.07)	0.9980	10	3	0	2	0	0	0	0	0	3	1	0	0	0	0	3	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
IPI00008274	Adenylyl cyclase-associated protein 1	S 309	100% (27.16)	0.9980	21	20	2	1	3	2	0	0	1	1	3	1	0	0	2	0	3	2	0	0	1	1	2	1	0	0	1	1	0	4	0	0	3	2	2	2	0	0
IPI00413362	signal-induced proliferation-associated 1 like 1	S 1433	100% (26.93)	0.9980	1	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00435422	Isoform 2 of Signal-induced proliferation-associated 1-like protein 1	S 1412	100% (26.93)	0.9980	1	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00186139	hypothetical protein LOC65095 isoform 1	S 142	100% (29.93)	0.9980	14	13	1	2	1	0	1	0	1	2	1	0	1	0	1	2	0	0	1	0	1	2	1	0	1	0	1	1	1	0	1	0	1	2	1	0	0	0
IPI00255778	hypothetical protein LOC65095 isoform 2	S 24	100% (29.93)	0.9980	14	13	1	2	1	0	1	0	1	2	1	0	1	0	1	2	0	0	1	0	1	2	1	0	1	0	1	1	1	0	1	0	1	2	1	0	0	0
IPI00396057	Isoform C of Protein C9orf10	S 511	100% (25.11)	0.9980	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00743942	Similar to C90rf10-like protein	S 510	100% (25.11)	0.9980	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00303343	Serine arginine-rich pre-mRNA splicing factor SR-A1	S 548	100% (33.81)	0.9979	6	8	0	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	3	1	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	0
IPI00106847	Isoform GTBP-alt of DNA mismatch repair protein MSH6	S 261	100% (29.13)	0.9979	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00017504	Protein C9orf40	S 69	100% (29.79)	0.9979	5	3	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00170770	PHD finger protein 3	S 125	100% (13.38)	0.9979	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00215965	heterogeneous nuclear ribonucleoprotein A1 isoform b	S 6	100% (13.38)	0.9979	15	16	1	0	1	1	1	0	1	1	2	0	1	0	1	1	0	2	2	0	1	0	0	2	1	0	2	1	0	3	0	0	2	0	1	1	1	1
IPI00004472	Isoform 1 of Serine/threonine-protein kinase WNK1	S 183	100% (15.01)	0.9979	2	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00397590	Isoform 2 of Serine/threonine-protein kinase WNK1	S 183	100% (15.01)	0.9979	2	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00747266	226 kDa protein	S 183	100% (15.01)	0.9979	2	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00748509	251 kDa protein	S 183	100% (15.01)	0.9979	2	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00004068	Mediator of RNA polymerase II transcription subunit 12	S 687	100% (16.66)	0.9979	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00640149	243 kDa protein	S 652	100% (16.66)	0.9979	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00745010	TNRC11 protein	S 499	100% (16.66)	0.9979	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022465	Isoform 1 of Citron Rho-interacting kinase	S 440	100% (35.66)	0.9979	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00719285	Citron	S 440	100% (35.66)	0.9979	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00219726	Isoform 2AC of Catenin delta-1	S 234	100% (32.69)	0.9979	5	2	0	1	0	1	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00219728	Isoform 2A of Catenin delta-1	S 234	100% (32.69)	0.9979	5	2	0	1	0	1	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00299512	Isoform 2 of Neurofibromin	S 2460	100% (33.66)	0.9979	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00304235	Isoform 1 of Neurofibromin	S 2439	100% (33.66)	0.9979	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00015793	Isoform 1 of Telomerase-binding protein EST1A	S 484	100% (33.65)	0.9978	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00552897	Isoform 1 of Mediator of DNA damage checkpoint protein 1	S 495	100% (29.66)	0.9978	2	4	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00641106	227 kDa protein	S 495	100% (29.66)	0.9978	2	4	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00165970	Isoform 1 of DGCR8 protein	S 275	100% (33.26)	0.9978	5	4	0	1	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00549380	Isoform 3 of DGCR8 protein	S 275	100% (33.26)	0.9978	5	4	0	1	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00384861	Isoform 1 of ARF GTPase-activating protein GIT1	S 388	100% (32.67)	0.9978	3	2	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00008283	Zinc finger protein 106 homolog	S 1370	100% (26.57)	0.9978	7	7	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0
IPI00745518	Microtubule-associated protein 4 isoform 1 variant (Fragment)	S 412	100% (26.57)	0.9978	21	22	2	3	1	2	0	0	2	2	2	2	0	0	2	1	0	1	1	0	2	3	2	1	0	0	2	1	2	1	2	0	1	2	1	2	0	0
IPI00154388	oxysterol-binding protein-like protein 5 isoform b	S 689	100% (26.57)	0.9978	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220116	Oxysterol-binding protein-related protein 5	S 757	100% (26.57)	0.9978	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00305020	SH2 domain-containing protein 3A	S 201	100% (26.57)	0.9978	3	5	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0
IPI00419933	Pleckstrin homology domain containing, family A member 2	S 612	100% (26.57)	0.9978	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	S 1068	100% (26.56)	0.9978	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00304589	182 kDa tankyrase 1-binding protein	S 1024	100% (26.51)	0.9978	18	19	4	3	0	0	0	0	5	2	0	0	0	0	3	1	0	0	0	0	5	2	0	0	0	0	3	3	0	0	0	0	4	2	0	0	0	0
IPI00006093	Protein FAM38A	S 972	100% (20.54)	0.9978	9	11	3	0	0	0	0	0	2	0	0	0	0	0	4	0	0	0	0	0	5	0	0	0	0	0	2	0	0	0	0	0	4	0	0	0	0	0
IPI00154515	Smad nuclear-interacting protein 1	S 52	100% (31.27)	0.9978	7	12	0	0	1	0	0	0	0	0	1	2	0	0	1	0	0	2	0	0	0	0	2	1	0	0	0	0	3	2	0	0	0	0	2	2	0	0
IPI00064212	KIAA1802 protein (Fragment)	S 117	100% (13.25)	0.9978	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00414497	Chromosome 13 open reading frame 8	S 108	100% (13.25)	0.9978	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 351	100% (20.42)	0.9977	2	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010141	DNA polymerase epsilon subunit 3	S 122	100% (26.38)	0.9977	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00012442	Ras-GTPase-activating protein-binding protein 1	S 149	100% (26.38)	0.9977	12	13	0	1	0	1	0	1	0	1	1	1	0	0	0	1	3	1	0	1	0	1	2	1	1	1	0	0	1	1	0	0	0	1	2	1	0	1
IPI00373870	Isoform 1 of Chromodomain helicase-DNA-binding protein 3	S 90	100% (29.32)	0.9977	4	5	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00465222	chromodomain helicase DNA binding protein 3 isoform 3	S 135	100% (29.32)	0.9977	4	5	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00009504	Leukemia virus receptor 2	S 259	100% (26.31)	0.9977	7	10	2	1	1	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	2	1	0	0	0	0	1	2	0	0	0	0	1	1	1	1	0	0
IPI00337315	Isoform 1 of Retinoblastoma-binding protein 6	S 245	100% (26.31)	0.9977	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00376283	Isoform 2 of Retinoblastoma-binding protein 6	S 245	100% (26.31)	0.9977	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00382585	182 kDa protein	S 68	100% (26.31)	0.9977	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00176532	Isoform 1 of Junctophilin-2	S 486	100% (26.31)	0.9977	3	2	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00217490	Factor for adipocyte differentiation 104 variant (Fragment)	S 208	100% (29.32)	0.9977	6	1	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00220901	TBC1 domain family, member 4	S 342	100% (29.32)	0.9977	10	12	2	1	2	0	0	0	2	1	2	0	0	0	0	0	0	0	0	0	2	1	2	0	0	0	1	1	1	0	0	0	2	1	1	0	0	0
IPI00396378	Isoform B1 of Heterogeneous nuclear ribonucleoproteins A2/B1	S 259	100% (41.75)	0.9977	9	15	0	0	0	3	0	0	0	0	0	4	0	0	0	0	0	2	0	0	0	0	1	3	0	0	0	0	1	4	0	0	0	0	2	4	0	0
IPI00409635	KIAA1228 protein	S 31	100% (26.31)	0.9977	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00003441	Hypothetical protein ORF9 precursor	S 1081	100% (26.31)	0.9977	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00003842	Isoform 1 of Microtubule-associated protein 2	S 1534	100% (26.31)	0.9977	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00008231	Chromosome 1 open reading frame 9	S 1233	100% (26.31)	0.9977	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00010728	203 kDa protein	S 1534	100% (26.31)	0.9977	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00012268	26S proteasome non-ATPase regulatory subunit 2	S 361	100% (26.31)	0.9977	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00020928	Transcription factor A, mitochondrial precursor	S 193	100% (26.31)	0.9977	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00021167	Isoform 1 of Interferon-inducible double stranded RNA-dependent protein kinase activator A	S 18	100% (26.31)	0.9977	4	3	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00021537	Isoform 1 of Opioid growth factor receptor	S 597	100% (26.31)	0.9977	2	5	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00025310	Zinc finger protein 217	S 407	100% (26.31)	0.9977	6	6	1	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0
IPI00044583	Isoform 1 of Transcriptional-regulating factor 1	S 621	100% (26.31)	0.9977	2	3	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
IPI00160131	Myosin-IXa	S 1299	100% (26.31)	0.9977	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00219301	Myristoylated alanine-rich C-kinase substrate	S 26	100% (26.31)	0.9977	27	26	1	1	4	2	1	0	1	2	3	2	1	0	1	2	3	2	1	0	1	3	3	2	1	0	1	2	1	1	2	0	2	2	2	1	2	0
IPI00256861	Isoform 2 of Microtubule-actin crosslinking factor 1, isoforms 1/2/3/5	S 1860	100% (26.31)	0.9977	6	9	1	0	0	0	0	0	1	1	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0
IPI00328929	Conserved nuclear protein NHN1	S 534	100% (26.31)	0.9977	4	4	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0
IPI00329692	Isoform Long of Glycylpeptide N-tetradecanoyltransferase 1	S 69	100% (26.31)	0.9977	2	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00337530	Isoform 1 of RalBP1-associated Eps domain-containing protein 1	S 91	100% (26.31)	0.9977	3	3	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00337532	Isoform 3 of RalBP1-associated Eps domain-containing protein 1	S 91	100% (26.31)	0.9977	3	3	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00386110	Hypothetical protein FLJ23464	S 258	100% (26.31)	0.9977	6	9	1	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0
IPI00432363	Microtubule-actin crosslinking factor 1, isoform 4	S 2362	100% (26.31)	0.9977	6	9	1	0	0	0	0	0	1	1	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	0	3	0	0	0	0
IPI00465345	Huntingtin interacting protein C, isoform 1	S 764	100% (26.31)	0.9977	6	9	1	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0
IPI00472094	Isoform 3 of Microtubule-associated protein 2	S 1530	100% (26.31)	0.9977	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00478739	microfilament and actin filament cross-linker protein isoform b	S 2362	100% (26.31)	0.9977	6	9	1	0	0	0	0	0	1	1	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0
IPI00513991	620 kDa protein	S 1860	100% (26.31)	0.9977	6	9	1	0	0	0	0	0	1	1	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0
IPI00514468	670 kDa protein	S 2362	100% (26.31)	0.9977	6	9	1	0	0	0	0	0	1	1	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0
IPI00550385	Isoform 1 of Microtubule-actin crosslinking factor 1, isoforms 1/2/3/5	S 1825	100% (26.31)	0.9977	6	9	1	0	0	0	0	0	1	1	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0
IPI00554648	Keratin, type II cytoskeletal 8	S 474	100% (26.31)	0.9977	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00646529	Hypothetical protein DKFZp434O1520	S 751	100% (26.31)	0.9977	6	9	1	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0
IPI00745518	Microtubule-associated protein 4 isoform 1 variant (Fragment)	S 853	100% (26.31)	0.9977	6	4	0	1	0	0	0	0	1	0	0	1	0	0	1	1	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00749082	57 kDa protein	S 69	100% (26.31)	0.9977	2	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00425560	Isoform 1 of LAP4 protein	S 1348	100% (31.05)	0.9976	4	6	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0
IPI00425566	Isoform 4 of LAP4 protein	S 1348	100% (31.05)	0.9976	4	6	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0
IPI00000858	Isoform 1 of Negative elongation factor E	S 115	100% (29.27)	0.9976	3	7	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	1	1	1	0	0	0	0	1	1	0	0
IPI00154408	Isoform 2 of Negative elongation factor E	S 115	100% (29.27)	0.9976	3	7	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	1	1	1	0	0	0	0	1	1	0	0
IPI00218136	137 kDa protein	S 137	100% (29.27)	0.9976	1	4	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00515042	cingulin	S 137	100% (29.27)	0.9976	1	4	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00384541	Novel protein	S 1099	100% (26.23)	0.9976	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00639879	Novel protein	S 1073	100% (26.23)	0.9976	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00104050	Thyroid hormone receptor-associated protein 3	S 55	100% (17.01)	0.9976	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00337385	Isoform 1 of Pre-mRNA-processing factor 40 homolog A	S 938	100% (29.13)	0.9976	10	3	1	3	0	0	0	0	2	1	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00337386	Isoform 2 of Pre-mRNA-processing factor 40 homolog A	S 896	100% (29.13)	0.9976	10	3	1	3	0	0	0	0	2	1	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00337387	Isoform 3 of Pre-mRNA-processing factor 40 homolog A	S 920	100% (29.13)	0.9976	10	3	1	3	0	0	0	0	2	1	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00397509	Isoform 4 of Pre-mRNA-processing factor 40 homolog A	S 807	100% (29.13)	0.9976	10	3	1	3	0	0	0	0	2	1	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00003964	ubiquitin specific protease 9, X-linked isoform 4	S 1600	100% (26.16)	0.9976	4	1	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00221012	ubiquitin specific protease 9, X-linked isoform 3	S 1600	100% (26.16)	0.9976	4	1	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00302592	Filamin A, alpha	S 2502	100% (31.84)	0.9976	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00333541	Filamin-A	S 2509	100% (31.84)	0.9976	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00156793	DNA-repair protein complementing XP-C cells	S 398	100% (18.82)	0.9976	4	1	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00237884	Isoform 1 of A-kinase anchor protein 12	S 120	100% (29.10)	0.9975	6	10	1	0	0	1	0	0	1	1	0	1	0	0	1	0	0	0	0	0	3	1	0	0	0	0	3	1	0	0	0	0	1	1	0	0	0	0
IPI00045856	CDNA FLJ14717 fis, clone NT2RP3001239, moderately similar to MICROTUBULE-ASSOCIATED PROTEIN 1	S 759	100% (30.85)	0.9975	9	11	1	1	0	1	0	0	0	1	0	1	0	0	0	2	0	1	1	0	1	1	0	0	0	0	0	1	1	1	1	0	1	2	1	1	0	0
IPI00296485	BPY2 interacting protein 1	S 759	100% (30.85)	0.9975	9	11	1	1	0	1	0	0	0	1	0	1	0	0	0	2	0	1	1	0	1	1	0	0	0	0	0	1	1	1	1	0	1	2	1	1	0	0
IPI00304692	Heterogeneous nuclear ribonucleoprotein G	S 208	100% (30.83)	0.9975	5	0	0	0	0	1	0	0	0	0	0	2	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00398992	Isoform 1 of Chromodomain-helicase-DNA-binding protein 8	S 1767	100% (30.83)	0.9975	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00719073	Isoform 2 of Chromodomain-helicase-DNA-binding protein 8	S 1911	100% (30.83)	0.9975	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00027172	Isoform Long of Restin	S 310	100% (36.05)	0.9975	7	5	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00217113	Isoform Short of Restin	S 310	100% (36.05)	0.9975	7	5	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00033025	Septin-7	S 335	100% (13.01)	0.9975	2	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00552502	cell division cycle 10 isoform 2	S 315	100% (13.01)	0.9975	2	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00004233	Isoform Long of Antigen KI-67	S 579	100% (13.01)	0.9975	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00301293	antigen identified by monoclonal antibody Ki-67	S 579	100% (13.01)	0.9975	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00219420	Structural maintenance of chromosome 3	S 1065	100% (28.56)	0.9975	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00022450	TBC1 domain family member 5	S 554	100% (30.75)	0.9975	10	6	0	1	1	1	1	0	1	1	1	1	0	0	1	0	0	1	0	0	0	2	0	0	0	0	0	1	0	1	0	0	0	1	0	1	0	0
IPI00239406	Isoform 2 of Nesprin-2	S 4108	100% (30.75)	0.9975	4	2	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00337641	Isoform 1 of Tetratricopeptide repeat protein 7B	S 576	100% (28.96)	0.9975	4	0	0	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456534	Isoform 2 of Tetratricopeptide repeat protein 7B	S 593	100% (28.96)	0.9975	4	0	0	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00334715	172 kDa protein	S 1179	100% (28.96)	0.9975	4	4	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00477498	Isoform 1 of Glucocorticoid receptor DNA-binding factor 1	S 1179	100% (28.96)	0.9975	4	4	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00718985	Isoform 2 of Glucocorticoid receptor DNA-binding factor 1	S 1179	100% (28.96)	0.9975	4	4	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00003842	Isoform 1 of Microtubule-associated protein 2	S 833	100% (28.96)	0.9975	7	9	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0
IPI00010728	203 kDa protein	S 833	100% (28.96)	0.9975	7	9	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00472094	Isoform 3 of Microtubule-associated protein 2	S 829	100% (28.96)	0.9975	7	9	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0
IPI00306825	Isoform 1 of Tumor protein D54	S 166	100% (25.95)	0.9975	2	4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	1	0
IPI00399265	tumor protein D52-like 2 isoform a	S 189	100% (25.95)	0.9975	2	4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	1	0
IPI00399267	tumor protein D52-like 2 isoform c	S 180	100% (25.95)	0.9975	2	4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	1	0
IPI00104050	Thyroid hormone receptor-associated protein 3	S 243	100% (25.95)	0.9975	5	5	1	0	0	0	0	0	1	1	0	0	0	0	1	0	1	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00456887	Scaffold attachment factor A2	S 185	100% (25.95)	0.9975	3	5	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00741728	PREDICTED: similar to heterogeneous nuclear ribonucleoprotein U	S 342	100% (25.95)	0.9975	3	5	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00299417	Protein C22orf19	S 312	100% (28.91)	0.9974	7	7	0	2	1	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0
IPI00020021	Protein DEK	S 306	100% (17.57)	0.9974	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
IPI00552897	Isoform 1 of Mediator of DNA damage checkpoint protein 1	S 498	100% (28.90)	0.9974	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00641106	227 kDa protein	S 498	100% (28.90)	0.9974	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00004472	Isoform 1 of Serine/threonine-protein kinase WNK1	S 185	100% (14.19)	0.9974	5	4	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
IPI00397590	Isoform 2 of Serine/threonine-protein kinase WNK1	S 185	100% (14.19)	0.9974	5	4	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
IPI00747266	226 kDa protein	S 185	100% (14.19)	0.9974	5	4	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
IPI00748509	251 kDa protein	S 185	100% (14.19)	0.9974	5	4	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
IPI00103516	Caskin-2	S 725	100% (28.91)	0.9974	1	4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00024425	Putative eukaryotic translation initiation factor 3 subunit	S 664	100% (30.64)	0.9974	4	4	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00442210	Isoform 1 of Abl interactor 2	S 183	100% (30.64)	0.9974	8	7	0	0	1	0	1	0	1	0	2	1	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	1	0	1	0	0	1	1	0
IPI00064666	Protein FAM84B	S 300	100% (17.91)	0.9974	4	4	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0
IPI00008475	Hydroxymethylglutaryl-CoA synthase, cytoplasmic	S 495	100% (30.61)	0.9974	7	9	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	0	2	1	0	0	0	0	2	1	0
IPI00373870	Isoform 1 of Chromodomain helicase-DNA-binding protein 3	S 88	100% (28.79)	0.9974	4	3	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00465222	chromodomain helicase DNA binding protein 3 isoform 3	S 133	100% (28.79)	0.9974	4	3	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00179713	insulin-like growth factor 2 mRNA binding protein 2 isoform a	S 164	100% (26.31)	0.9974	9	14	0	0	2	1	0	0	0	0	1	1	0	0	0	0	3	1	0	0	0	1	3	0	0	0	0	2	3	0	0	0	0	2	3	0	0	0
IPI00180983	insulin-like growth factor 2 mRNA binding protein 2 isoform b	S 164	100% (26.31)	0.9974	9	14	0	0	2	1	0	0	0	0	1	1	0	0	0	0	3	1	0	0	0	1	3	0	0	0	0	2	3	0	0	0	0	2	3	0	0	0
IPI00743914	66 kDa protein	S 163	100% (26.31)	0.9974	9	14	0	0	2	1	0	0	0	0	1	1	0	0	0	0	3	1	0	0	0	1	3	0	0	0	0	2	3	0	0	0	0	2	3	0	0	0
IPI00030408	M-phase phosphoprotein 8	S 382	100% (13.04)	0.9974	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022904	50 kDa protein	S 302	100% (34.15)	0.9973	3	9	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	1	2	0	1	0	0	1	1	0	0	0
IPI00103654	Hypothetical protein	S 226	100% (34.15)	0.9973	3	9	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	1	2	0	1	0	0	1	1	0	0	0
IPI00746062	PPP4R2 protein	S 169	100% (34.15)	0.9973	3	9	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	1	2	0	1	0	0	1	1	0	0	0
IPI00412993	CDNA FLJ36874 fis, clone ASTRO2018169, weakly similar to Oocyte- specific protein P100	S 36	100% (21.94)	0.9973	9	11	1	0	1	1	1	0	0	2	1	1	0	0	0	1	0	0	0	0	0	2	2	1	0	0	0	2	0	1	0	0	1	1	0	1	0	0
IPI00464952	Splicing factor arginine/serine-rich 11	S 434	100% (25.67)	0.9973	3	6	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0
IPI00641287	Splicing factor p54	S 433	100% (25.67)	0.9973	3	6	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0
IPI00641842	Splicing factor, arginine₩/serine-rich 11	S 374	100% (25.67)	0.9973	3	6	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0
IPI00410127	Transforming, acidic coiled-coil containing protein 2	S 1802	100% (18.00)	0.9973	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00643465	transforming, acidic coiled-coil containing protein 2 isoform a	S 2075	100% (18.00)	0.9973	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00014197	Hypothetical protein	S 106	100% (12.81)	0.9973	1	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00024062	Band 4.1-like protein 1	S 441	100% (12.81)	0.9973	11	6	0	3	0	0	0	0	2	3	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	1	2	0	0	0	0	0
IPI00064212	KIAA1802 protein (Fragment)	S 454	100% (12.81)	0.9973	10	11	1	2	0	0	0	0	2	2	0	0	0	0	1	2	0	0	0	0	1	3	1	0	0	0	1	2	0	0	0	0	2	1	0	0	0	0
IPI00296388	Isoform 1 of Bromodomain adjacent to zinc finger domain 2A	S 1370	100% (12.81)	0.9973	2	4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0
IPI00305020	SH2 domain-containing protein 3A	S 145	100% (12.81)	0.9973	2	4	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00305020	SH2 domain-containing protein 3A	S 147	100% (12.81)	0.9973	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00414497	Chromosome 13 open reading frame 8	S 445	100% (12.81)	0.9973	10	11	1	2	0	0	0	0	2	2	0	0	0	0	1	2	0	0	0	0	1	3	1	0	0	0	1	2	0	0	0	0	2	1	0	0	0	0
IPI00644651	EPB41L1 protein	S 441	100% (12.81)	0.9973	11	6	0	3	0	0	0	0	2	3	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	1	2	0	0	0	0	0
IPI00736672	Isoform 3 of Quaking protein	S 211	100% (12.81)	0.9973	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00738216	PREDICTED: hypothetical protein LOC23379	S 1353	100% (12.81)	0.9973	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00745274	bromodomain adjacent to zinc finger domain, 2A	S 1400	100% (12.81)	0.9973	2	4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0
IPI00759742	Isoform 2 of Bromodomain adjacent to zinc finger domain 2A	S 1400	100% (12.81)	0.9973	2	4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0
IPI00759828	Isoform 5 of Quaking protein	S 211	100% (12.81)	0.9973	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00297178	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 16	S 103	100% (28.07)	0.9972	10	10	1	1	0	0	0	0	1	2	0	0	1	0	2	2	0	0	0	0	2	2	0	0	1	0	1	1	0	0	1	0	1	1	0	0	0	0
IPI00552073	Putative pre-mRNA-splicing factor ATP-dependent RNA helicase DHX16	S 103	100% (28.07)	0.9972	10	10	1	1	0	0	0	0	1	2	0	0	1	0	2	2	0	0	0	0	2	2	0	0	1	0	1	1	0	0	1	0	1	1	0	0	0	0
IPI00641132	120 kDa protein	S 107	100% (28.07)	0.9972	10	10	1	1	0	0	0	0	1	2	0	0	1	0	2	2	0	0	0	0	2	2	0	0	1	0	1	1	0	0	1	0	1	1	0	0	0	0
IPI00003843	Isoform A1 of Tight junction protein ZO-2	S 441	100% (25.55)	0.9972	11	8	0	1	3	1	0	0	0	2	1	0	0	0	1	1	0	1	0	0	1	0	1	0	0	0	0	1	1	0	0	0	1	3	0	0	0	0
IPI00008868	Microtubule-associated protein 1B	S 561	100% (25.55)	0.9972	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00374770	microtubule-associated protein 1B isoform 2	S 435	100% (25.55)	0.9972	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00180154	Isoform 1 of Ataxin-2	S 759	100% (30.31)	0.9972	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00455359	Isoform 2 of Ataxin-2	S 757	100% (30.31)	0.9972	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00455363	Isoform 4 of Ataxin-2	S 757	100% (30.31)	0.9972	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00719520	ATXN2 protein (Fragment)	S 547	100% (30.31)	0.9972	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00156793	DNA-repair protein complementing XP-C cells	S 397	100% (15.08)	0.9972	4	2	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00328929	Conserved nuclear protein NHN1	S 78	100% (27.03)	0.9972	3	1	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00013743	Hypothetical protein BUD13	S 188	100% (18.26)	0.9972	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005978	Splicing factor, arginine/serine-rich 2	S 211	100% (23.64)	0.9972	2	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00299417	Protein C22orf19	S 314	100% (32.36)	0.9972	8	8	0	2	2	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0
IPI00022827	Isoform 1 of STE20-like serine/threonine-protein kinase	S 565	100% (14.29)	0.9971	2	4	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00374268	Isoform 2 of Bromodomain-containing protein 9	S 229	100% (33.81)	0.9971	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00549384	Isoform 1 of Bromodomain-containing protein 9	S 472	100% (33.81)	0.9971	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00759680	Isoform 3 of Bromodomain-containing protein 9	S 450	100% (33.81)	0.9971	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216044	Isoform 1 of RNA-binding protein Raly	S 272	100% (26.57)	0.9971	31	27	1	0	2	6	2	0	0	0	0	2	6	1	1	2	0	0	6	1	1	0	0	2	3	1	0	2	0	3	3	0	2	2	0	2	6	1	0
IPI00181702	Isoform 1 of Splicing factor, arginine/serine-rich 15	S 154	100% (28.34)	0.9971	19	17	3	3	0	1	0	0	3	2	0	0	0	0	3	3	0	1	0	0	4	3	0	0	0	0	2	3	0	0	0	0	3	2	0	0	0	0
IPI00397794	Isoform 2 of Splicing factor, arginine/serine-rich 15	S 154	100% (28.34)	0.9971	19	17	3	3	0	1	0	0	3	2	0	0	0	0	3	3	0	1	0	0	4	3	0	0	0	0	2	3	0	0	0	0	3	2	0	0	0	0
IPI00306933	Isoform Short of Myosin-9B	S 1405	100% (30.10)	0.9971	3	6	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0
IPI00336047	Isoform Long of Myosin-9B	S 1405	100% (30.10)	0.9971	3	6	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0
IPI00023234	Ubiquitin-like 1-activating enzyme E1B	S 207	100% (25.31)	0.9971	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00305589	Isoform 1 of 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2	S 493	100% (28.31)	0.9971	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00640055	Novel protein	S 606	100% (12.65)	0.9971	8	4	0	1	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
IPI00395887	Thioredoxin domain-containing protein 1 precursor	S 270	100% (28.30)	0.9970	2	3	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0
IPI00012079	Eukaryotic translation initiation factor 4B	S 93	100% (31.27)	0.9970	3	6	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	2	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
IPI00297593	Ubiquitin-specific proteinase 34	S 3406	100% (31.27)	0.9970	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00021175	Cell division cycle 2-related protein kinase 7	S 274	100% (32.22)	0.9970	5	4	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0
IPI00043638	Isoform 2 of La-related protein 4	S 484	100% (32.22)	0.9970	1	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
IPI00395347	c-Mpl binding protein isoform a	S 583	100% (32.22)	0.9970	1	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
IPI00395837	c-Mpl binding protein isoform c	S 512	100% (32.22)	0.9970	1	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
IPI00418689	c-Mpl binding protein isoform b	S 589	100% (32.22)	0.9970	1	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
IPI00472779	Ankyrin-3	S 524	100% (32.22)	0.9970	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00478210	ankyrin 3 isoform 1	S 524	100% (32.22)	0.9970	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00643996	68 kDa protein	S 490	100% (32.22)	0.9970	1	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
IPI00472044	Isoform 1 of GTPase-activating Rap/Ran-GAP domain-like 1	S 908	100% (13.38)	0.9970	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00002564	DNA-repair protein XRCC1	S 578	100% (19.39)	0.9970	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00644127	Isoleucyl-tRNA synthetase, cytoplasmic	S 1053	100% (35.36)	0.9970	4	6	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00166680	Isoform 3 of Misshapen-like kinase 1	S 641	100% (28.13)	0.9969	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00642705	Isoform 2 of AT-rich interactive domain-containing protein 1A	S 363	100% (28.13)	0.9969	4	2	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00643722	Isoform 1 of AT-rich interactive domain-containing protein 1A	S 363	100% (28.13)	0.9969	4	2	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00328798	DLNB11 protein	S 1017	100% (25.11)	0.9969	2	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00027157	CENP-F kinetochore protein	S 595	100% (25.11)	0.9969	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00298618	CDNA FLJ36810 fis, clone ASTRO2001249	S 159	100% (25.11)	0.9969	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00295004	Isoform 1 of Alsin	S 492	100% (12.68)	0.9969	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00299254	Eukaryotic translation initiation factor 5B	S 190	100% (27.99)	0.9969	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00375731	Hypothetical protein DKFZp686E2459	S 801	100% (16.76)	0.9969	7	5	1	2	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0
IPI00024816	Hypothetical protein FLJ22484	S 207	100% (25.00)	0.9968	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00220739	Membrane-associated progesterone receptor component 1	S 180	100% (27.96)	0.9968	49	55	1	1	0	3	11	0	0	1	0	2	12	0	2	1	1	2	12	0	1	0	1	4	12	1	1	0	1	5	12	0	1	0	1	3	12	0
IPI00555610	313 kDa protein	S 2834	100% (27.96)	0.9968	46	55	4	2	3	3	2	0	4	3	4	3	2	0	4	4	2	3	3	0	5	4	2	4	3	0	7	4	2	3	2	1	6	3	2	4	2	1
IPI00005688	Zinc finger protein 185	S 221	100% (27.96)	0.9968	9	12	1	0	0	1	0	0	1	1	0	1	0	0	1	1	1	1	0	0	1	1	0	1	1	0	0	1	1	1	0	1	1	1	1	1	0	0
IPI00022479	guanine nucleotide exchange factor p532	S 1491	100% (27.96)	0.9968	2	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00256861	Isoform 2 of Microtubule-actin crosslinking factor 1, isoforms 1/2/3/5	S 1376	100% (27.96)	0.9968	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00425560	Isoform 1 of LAP4 protein	S 835	100% (27.96)	0.9968	4	4	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00425566	Isoform 4 of LAP4 protein	S 835	100% (27.96)	0.9968	4	4	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00513991	620 kDa protein	S 1376	100% (27.96)	0.9968	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00550385	Isoform 1 of Microtubule-actin crosslinking factor 1, isoforms 1/2/3/5	S 1341	100% (27.96)	0.9968	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00292009	palladin	S 641	100% (27.94)	0.9968	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	2	1	0	0	2	3	3	1	0	0	2	3	3	2	0	0
IPI00293845	275 kDa protein	S 1554	100% (31.88)	0.9968	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00375454	Isoform 2 of Telomere-associated protein RIF1	S 1554	100% (31.88)	0.9968	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00477805	Isoform 1 of Telomere-associated protein RIF1	S 1552	100% (31.88)	0.9968	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00640318	Hypothetical protein FLJ23236	S 29	100% (14.19)	0.9968	7	6	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0
IPI00305589	Isoform 1 of 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2	S 466	100% (30.83)	0.9967	4	5	0	0	0	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00457284	hypothetical protein LOC23131	S 653	100% (30.75)	0.9967	3	3	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00737871	PREDICTED: similar to angiomotin	S 714	100% (24.75)	0.9967	4	6	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00000692	Chloride intracellular channel protein 3	S 49	100% (27.68)	0.9966	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00221325	Ran-binding protein 2	S 21	100% (26.31)	0.9966	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00004273	RNA binding motif protein 25	S 693	100% (16.96)	0.9966	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00001632	hypothetical protein LOC57648	S 673	100% (27.65)	0.9966	18	14	4	3	1	0	0	0	2	1	1	0	0	0	2	3	1	0	0	0	1	1	1	0	0	0	2	3	1	0	0	0	2	2	1	0	0	0
IPI00645725	108 kDa protein	S 684	100% (27.65)	0.9966	18	14	4	3	1	0	0	0	2	1	1	0	0	0	2	3	1	0	0	0	1	1	1	0	0	0	2	3	1	0	0	0	2	2	1	0	0	0
IPI00301421	Isoform 1 of Nuclear-interacting partner of ALK	S 62	100% (33.65)	0.9966	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00339382	Isoform 2 of Nuclear-interacting partner of ALK	S 41	100% (33.65)	0.9966	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00064212	KIAA1802 protein (Fragment)	S 291	100% (23.93)	0.9965	14	8	1	1	2	0	0	0	2	2	1	0	0	0	1	2	2	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	1	3	1	0	0	0
IPI00414497	Chromosome 13 open reading frame 8	S 282	100% (23.93)	0.9965	14	8	1	1	2	0	0	0	2	2	1	0	0	0	1	2	2	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	1	3	1	0	0	0
IPI00008868	Microtubule-associated protein 1B	S 1389	100% (24.32)	0.9965	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00374770	microtubule-associated protein 1B isoform 2	S 1263	100% (24.32)	0.9965	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00006211	VAMP-associated protein B/C	S 209	100% (29.29)	0.9965	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00445401	Isoform 2 of HECT, UBA and WWE domain-containing protein 1	S 2365	100% (24.44)	0.9964	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00456919	Isoform 1 of HECT, UBA and WWE domain-containing protein 1	S 2365	100% (24.44)	0.9964	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00643153	Isoform 3 of HECT, UBA and WWE domain-containing protein 1	S 2356	100% (24.44)	0.9964	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00005490	Golgi phosphoprotein 3	S 35	100% (24.44)	0.9964	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00216689	Poly(rC)-binding protein 2	S 189	100% (24.44)	0.9964	8	9	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	2	2	0	0	0	0	1	2	0
IPI00217851	PHACTR4 protein	S 118	100% (24.44)	0.9964	3	4	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00432436	PHACTR4 protein	S 102	100% (24.44)	0.9964	3	4	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00657967	79 kDa protein	S 128	100% (24.44)	0.9964	3	4	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00217686	Putative rRNA methyltransferase 3	S 336	100% (29.32)	0.9964	4	1	0	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00552897	Isoform 1 of Mediator of DNA damage checkpoint protein 1	S 329	100% (13.63)	0.9964	3	4	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0
IPI00641106	227 kDa protein	S 329	100% (13.63)	0.9964	3	4	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0
IPI00158615	Isoform 1 of THO complex subunit 2	S 1316	100% (27.35)	0.9963	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00163644	Oxysterol-binding protein	S 811	100% (31.39)	0.9963	3	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00394737	Isoform 2 of Oxysterol-binding protein-related protein 8	S 795	100% (31.39)	0.9963	3	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00296432	Isoform 1 of IWS1-like protein	S 315	100% (24.32)	0.9963	7	8	0	1	1	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	1	2	1	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0
IPI00024970	Inner centromere protein	S 904	100% (27.32)	0.9963	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00759472	inner centromere protein antigens 135/155kDa isoform 2	S 895	100% (27.32)	0.9963	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00029730	Syntaxin-4	S 117	100% (24.32)	0.9963	7	3	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0
IPI00219841	DNA ligase 1	S 51	100% (24.32)	0.9963	4	8	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0
IPI00457284	hypothetical protein LOC23131	S 1107	100% (24.32)	0.9963	5	4	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00028419	My020 protein	S 120	100% (24.32)	0.9963	4	4	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0
IPI00293451	Tight junction protein ZO-3	S 385	100% (24.32)	0.9963	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00744036	tight junction protein 3	S 404	100% (24.32)	0.9963	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00744288	Isoform 5 of C-jun-amino-terminal kinase-interacting protein 4	S 318	100% (24.32)	0.9963	4	4	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00747113	Adenovirus E1B19k-binding protein B5	S 120	100% (24.32)	0.9963	4	4	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0
IPI00024157	FK506-binding protein 3	S 100	100% (24.24)	0.9962	3	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0
IPI00478127	Transcription elongation factor A protein-like 3	S 121	100% (24.24)	0.9962	5	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00555610	313 kDa protein	S 264	100% (24.24)	0.9962	9	8	1	2	1	0	0	0	1	1	1	0	0	0	0	1	1	0	0	0	2	1	1	0	0	0	0	1	0	0	0	0	1	1	1	0	0	0
IPI00217104	Melanoma-associated antigen G1	S 64	100% (24.17)	0.9962	3	3	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00513803	Mitogen-activated protein kinase kinase kinase 2	S 239	100% (27.16)	0.9962	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00006038	Isoform 1 of Nuclear pore complex protein Nup98-Nup96 precursor	S 623	100% (27.16)	0.9962	8	13	0	1	0	1	0	0	0	2	0	0	1	0	0	1	1	1	0	0	1	2	1	2	0	0	0	2	1	1	0	0	0	1	1	1	0	0
IPI00448465	Isoform 1 of Ankyrin repeat domain-containing protein 12	S 149	100% (30.10)	0.9961	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00448466	Isoform 2 of Ankyrin repeat domain-containing protein 12	S 126	100% (30.10)	0.9961	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00479669	hypothetical protein LOC23074 isoform a	S 418	100% (30.10)	0.9961	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00019835	Isoform 1 of Bcl-2-related proline-rich protein	S 195	100% (27.05)	0.9961	2	3	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0
IPI00010700	Isoform 1 of Large proline-rich protein BAT2	S 761	100% (28.79)	0.9961	6	3	1	1	1	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00084746	229 kDa protein	S 761	100% (28.79)	0.9961	6	3	1	1	1	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00376933	HLA-B associated transcript-2 isoform b	S 749	100% (28.79)	0.9961	6	3	1	1	1	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00742934	HLA-B associated transcript-2 isoform a	S 761	100% (28.79)	0.9961	6	3	1	1	1	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00376199	Interferon regulatory factor 2 binding protein 2	S 460	100% (26.31)	0.9960	5	3	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
IPI00646970	Interferon regulatory factor 2 binding protein 2	S 444	100% (26.31)	0.9960	5	3	0	0	0	0	1	0	0	0	0	1	1	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0
IPI00384765	Membrane-associated tyrosine- and threonine-specific cdc2-inhibitory kinase	S 94	100% (30.96)	0.9960	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00742852	55 kDa protein	S 94	100% (30.96)	0.9960	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00028059	Isoform 1 of Protein numb homolog	S 634	100% (28.64)	0.9959	1	6	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00180634	Isoform 2 of Protein numb homolog	S 586	100% (28.64)	0.9959	1	6	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00180920	Isoform 4 of Protein numb homolog	S 575	100% (28.64)	0.9959	1	6	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00216241	Isoform 3 of Protein numb homolog	S 623	100% (28.64)	0.9959	1	6	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00005605	Isoform 1 of Protein NDRG3	S 338	100% (34.14)	0.9959	3	1	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00217418	Isoform 2 of Rho-GTPase-activating protein 12	S 215	100% (30.83)	0.9959	5	0	0	0	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00328279	Isoform 1 of Rho-GTPase-activating protein 12	S 215	100% (30.83)	0.9959	5	0	0	0	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00410501	ARHGAP12 protein	S 215	100% (30.83)	0.9959	5	0	0	0	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00234446	activating transcription factor 2	S 328	100% (35.30)	0.9959	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
IPI00643352	nucleoporin 214kDa	S 661	100% (29.85)	0.9959	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00014513	Transcriptional repressor protein YY1	S 247	100% (29.84)	0.9959	14	14	0	0	2	1	2	1	0	0	2	0	2	0	0	0	1	1	1	1	0	0	2	1	0	1	0	0	2	2	1	1	0	0	2	1	0	1
IPI00328293	SerineW/arginine repetitive matrix 1	S 778	100% (29.84)	0.9959	34	28	5	6	0	2	0	0	5	3	1	2	0	0	4	4	0	2	0	0	5	6	0	0	0	0	4	3	1	0	0	0	5	4	0	0	0	0
IPI00744767	SAMD4A protein	S 272	100% (22.07)	0.9959	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00027152	Centromere protein A	S 17	100% (27.19)	0.9959	4	4	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0
IPI00386842	CENPA protein	S 17	100% (27.19)	0.9959	4	4	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0
IPI00398012	Fragile site-associated protein	S 1808	100% (23.64)	0.9958	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00007138	Isoform 1 of Disks large-associated protein 4	S 970	100% (29.79)	0.9958	3	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00059687	Isoform 1 of Protein C18orf25	S 145	100% (29.79)	0.9958	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0
IPI00152407	Isoform 2 of Protein C18orf25	S 145	100% (29.79)	0.9958	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0
IPI00220581	Isoform 2 of Disks large-associated protein 4	S 973	100% (29.79)	0.9958	3	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00411461	disks large-associated protein 4 isoform b	S 434	100% (29.79)	0.9958	3	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00654770	OTTHUMP00000030864	S 266	100% (29.79)	0.9958	3	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00102918	Isoform 2 of ATR-interacting protein	S 224	100% (23.78)	0.9958	4	8	0	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0
IPI00103517	Isoform 1 of ATR-interacting protein	S 224	100% (23.78)	0.9958	4	8	0	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0
IPI00413576	Isoform 3 of ATR-interacting protein	S 131	100% (23.78)	0.9958	4	8	0	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0
IPI00413577	Isoform 4 of ATR-interacting protein	S 224	100% (23.78)	0.9958	4	8	0	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0
IPI00012341	Isoform SRP40-1 of Splicing factor, arginine/serine-rich 5	S 231	100% (15.90)	0.9958	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00555857	CS0DF038YO05 variant (Fragment)	S 285	100% (15.90)	0.9958	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	S 372	100% (27.16)	0.9957	2	4	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0
IPI00027280	Isoform Beta-2 of DNA topoisomerase 2-beta	S 1413	100% (26.05)	0.9957	7	7	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0
IPI00217709	Isoform Beta-1 of DNA topoisomerase 2-beta	S 1408	100% (26.05)	0.9957	7	7	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0
IPI00419844	U4/U6.U5 tri-snRNP-associated protein 2	S 46	100% (23.62)	0.9957	3	2	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
IPI00455500	rapamycin-insensitive companion of mTOR	S 1286	100% (26.57)	0.9956	1	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
IPI00025366	Citrate synthase, mitochondrial precursor	S 451	100% (18.17)	0.9956	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00029273	Isoform 1 of Hepatocyte growth factor receptor precursor	S 997	100% (29.32)	0.9956	8	16	1	1	0	1	0	0	1	1	0	1	0	0	0	1	0	1	0	0	2	2	1	1	0	0	0	1	0	1	0	0	3	1	1	2	1	0
IPI00294528	Isoform 2 of Hepatocyte growth factor receptor precursor	S 1015	100% (29.32)	0.9956	8	16	1	1	0	1	0	0	1	1	0	1	0	0	0	1	0	1	0	0	2	2	1	1	0	0	0	1	0	1	0	0	3	1	1	2	1	0
IPI00218136	137 kDa protein	S 140	100% (23.48)	0.9956	1	6	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0
IPI00515042	cingulin	S 140	100% (23.48)	0.9956	1	6	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0
IPI00179326	Insulin receptor tyrosine kinase substrate	S 261	100% (26.06)	0.9956	7	3	0	0	1	1	0	0	0	0	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0
IPI00032064	Isoform A of A-kinase anchor protein 2	S 383	100% (31.27)	0.9955	7	12	0	1	0	1	0	0	1	1	0	1	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0	1	1	1	1	0	0	1	2	1	2	0
IPI00171217	Isoform B of A-kinase anchor protein 2	S 383	100% (31.27)	0.9955	7	12	0	1	0	1	0	0	1	1	0	1	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0	1	1	1	1	0	0	1	2	1	2	0
IPI00465433	A kinase (PRKA) anchor protein 2	S 241	100% (31.27)	0.9955	7	12	0	1	0	1	0	0	1	1	0	1	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0	1	1	1	1	0	0	1	2	1	2	0
IPI00013891	Isoform Long of Transformer-2 protein homolog	S 16	100% (27.48)	0.9955	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00329572	Protein kinase C and casein kinase substrate in neurons protein 3	S 342	100% (28.17)	0.9955	1	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00005184	Isoform Long of Transcription intermediary factor 1-alpha	S 811	100% (26.42)	0.9955	8	11	1	1	0	0	0	0	1	0	1	1	0	0	1	1	0	1	0	0	1	1	1	1	0	0	1	1	1	1	0	0	1	1	1	0	0	0
IPI00184317	Isoform Short of Transcription intermediary factor 1-alpha	S 777	100% (26.42)	0.9955	8	11	1	1	0	0	0	0	1	0	1	1	0	0	1	1	0	1	0	0	1	1	1	1	0	0	1	1	1	1	0	0	1	1	1	0	0	0
IPI00748891	26 kDa protein	S 93	100% (26.31)	0.9954	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00291802	Isoform 3 of LIM domain only protein 7	S 342	100% (29.32)	0.9953	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00009101	Transcriptional activator SRCAP	S 1654	100% (29.32)	0.9953	3	1	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00444046	CDNA FLJ46149 fis, clone TESTI4000621, moderately similar to Homo sapiens Snf2-related CBP activator	S 1859	100% (29.32)	0.9953	3	1	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00550342	KIAA0309 protein	S 1701	100% (29.32)	0.9953	3	1	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00008283	Zinc finger protein 106 homolog	S 861	100% (26.31)	0.9953	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00027157	CENP-F kinetochore protein	S 3175	100% (26.31)	0.9953	4	7	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0
IPI00065931	A-kinase anchor protein 13 isoform 1	S 1651	100% (26.31)	0.9953	2	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00154388	oxysterol-binding protein-like protein 5 isoform b	S 244	100% (26.31)	0.9953	4	3	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00216219	Isoform Long of Tight junction protein ZO-1	S 1617	100% (26.31)	0.9953	7	17	1	0	0	0	1	0	1	0	1	0	0	0	1	1	0	0	1	0	2	1	1	1	0	0	2	1	1	1	1	0	2	1	1	1	1	0
IPI00220116	Oxysterol-binding protein-related protein 5	S 312	100% (26.31)	0.9953	4	3	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00221093	40S ribosomal protein S17	S 112	100% (26.31)	0.9953	6	3	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00289649	Tyrosine-protein phosphatase non-receptor type 3	S 425	100% (26.31)	0.9953	6	6	1	1	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00299512	Isoform 2 of Neurofibromin	S 2597	100% (26.31)	0.9953	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00299635	Baculoviral IAP repeat-containing protein 6	S 452	100% (26.31)	0.9953	4	5	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0
IPI00304235	Isoform 1 of Neurofibromin	S 2576	100% (26.31)	0.9953	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00306825	Isoform 1 of Tumor protein D54	S 21	100% (26.31)	0.9953	4	4	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00399265	tumor protein D52-like 2 isoform a	S 21	100% (26.31)	0.9953	4	4	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00399267	tumor protein D52-like 2 isoform c	S 21	100% (26.31)	0.9953	4	4	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00480052	protein tyrosine phosphatase, non-receptor type 3	S 425	100% (26.31)	0.9953	6	6	1	1	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00647108	Tyrosine phosphatase	S 425	100% (26.31)	0.9953	6	6	1	1	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00022143	Isoform 1 of Protein FAM62A	S 963	100% (11.65)	0.9953	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00304692	Heterogeneous nuclear ribonucleoprotein G	S 124	100% (29.30)	0.9953	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00018963	Isoform 1 of Alpha-parvin	S 14	100% (30.64)	0.9953	3	7	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0
IPI00296432	Isoform 1 of IWS1-like protein	S 263	100% (23.23)	0.9953	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00003843	Isoform A1 of Tight junction protein ZO-2	S 440	100% (23.26)	0.9953	2	2	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00168336	CDNA FLJ90478 fis, clone NT2RP3002790	S 499	100% (27.96)	0.9952	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00292753	GTPase activating protein and VPS9 domains 1	S 929	100% (27.96)	0.9952	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00304742	Serine/threonine-protein kinase 10	S 454	100% (27.96)	0.9952	5	4	1	1	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00514106	OTTHUMP00000016219	S 460	100% (27.96)	0.9952	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00742770	KIAA1521 protein	S 741	100% (27.96)	0.9952	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00003843	Isoform A1 of Tight junction protein ZO-2	S 432	100% (26.31)	0.9952	5	1	1	1	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00177381	hypothetical protein LOC57703	S 28	100% (16.38)	0.9952	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00102313	steroid receptor RNA activator 1	S 87	100% (29.12)	0.9951	5	6	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0
IPI00005688	Zinc finger protein 185	S 71	100% (27.83)	0.9951	7	8	0	2	0	0	0	0	0	0	1	1	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	2	1	1	0	0	0	2	0	0	0	0
IPI00386211	family with sequence similarity 44, member A	S 2954	100% (27.83)	0.9951	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00006298	Isoform 1 of Peptidyl-prolyl cis-trans isomerase G	S 356	99% (11.47)	0.9950	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00012773	Isoform Long of Metastasis-associated protein MTA1	S 576	99% (11.47)	0.9950	5	3	0	1	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00293845	275 kDa protein	S 1556	99% (29.93)	0.9949	1	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00375454	Isoform 2 of Telomere-associated protein RIF1	S 1556	99% (29.93)	0.9949	1	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00477805	Isoform 1 of Telomere-associated protein RIF1	S 1554	99% (29.93)	0.9949	1	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00004497	Breakpoint cluster region protein	S 459	99% (29.93)	0.9949	6	4	1	0	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00171475	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 interacting protein	S 369	99% (25.95)	0.9949	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00032003	Emerin	S 49	99% (32.46)	0.9949	1	5	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	1	1	0	0
IPI00221394	H/ACA ribonucleoprotein complex subunit 4	S 450	99% (26.57)	0.9949	3	3	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00296337	Isoform 1 of DNA-dependent protein kinase catalytic subunit	S 3205	99% (22.88)	0.9949	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00604517	74 kDa protein	S 41	99% (22.87)	0.9948	11	12	0	4	0	0	0	0	0	2	0	0	0	0	0	5	0	0	0	0	0	6	0	0	0	0	0	4	0	0	0	0	2	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00181702	Isoform 1 of Splicing factor, arginine/serine-rich 15	S 656	99% (25.87)	0.9948	4	6	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00397794	Isoform 2 of Splicing factor, arginine/serine-rich 15	S 656	99% (25.87)	0.9948	4	6	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00029054	Cytosolic purine 5'-nucleotidase	S 502	99% (27.62)	0.9948	3	5	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0
IPI00216592	Isoform C1 of Heterogeneous nuclear ribonucleoproteins C1/C2	S 293	99% (15.08)	0.9948	3	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00465050	Isoform C of Lethal(2) giant larvae protein homolog 2	S 480	99% (22.82)	0.9948	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00641801	Isoform A of Lethal(2) giant larvae protein homolog 2	S 480	99% (22.82)	0.9948	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00386211	family with sequence similarity 44, member A	S 484	99% (25.11)	0.9947	2	3	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
IPI00170594	transcription factor ELYS	S 1306	99% (11.36)	0.9947	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00217957	ELYS transcription factor-like protein TMBS62	S 1332	99% (11.36)	0.9947	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219526	phosphoglucomutase 1	S 117	99% (11.36)	0.9947	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00031812	Nuclease sensitive element-binding protein 1	S 164	99% (25.67)	0.9946	4	7	0	0	0	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	1	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0
IPI00297859	Isoform 1 of Myeloid/lymphoid or mixed-lineage leukemia protein 2	S 2874	99% (16.55)	0.9946	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00377244	Isoform 2 of Myeloid/lymphoid or mixed-lineage leukemia protein 2	S 2569	99% (16.55)	0.9946	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00377245	Isoform 3 of Myeloid/lymphoid or mixed-lineage leukemia protein 2	S 2877	99% (16.55)	0.9946	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00480107	565 kDa protein	S 2879	99% (16.55)	0.9946	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1404	99% (27.96)	0.9945	11	11	4	1	0	0	0	0	2	0	0	0	0	0	4	0	0	0	0	0	5	0	0	0	0	0	2	0	0	0	0	0	4	0	0	0	0	0
IPI00106567	WD-repeat protein 33	S 1210	99% (22.60)	0.9945	8	7	1	1	1	0	0	0	1	1	1	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	2	0	0	0	0
IPI00045914	Msx2-interacting protein	S 2159	99% (27.35)	0.9945	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00296432	Isoform 1 of IWS1-like protein	S 261	99% (22.54)	0.9945	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00302238	Protein AATF	S 316	99% (24.35)	0.9945	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 2438	99% (23.62)	0.9944	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00166933	Protein C10orf12	S 273	99% (25.51)	0.9944	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00412415	Isoform 1 of Bromodomain adjacent to zinc finger domain protein 1A	S 1417	99% (11.25)	0.9944	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00743026	179 kDa protein	S 1418	99% (11.25)	0.9944	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 437	99% (22.45)	0.9944	17	13	1	2	0	0	0	0	4	4	0	0	0	0	4	2	0	0	0	0	5	0	0	0	0	0	3	1	0	0	0	0	4	0	0	0	0	0
IPI00479404	vacuolar protein sorting 13D isoform 1	S 1729	99% (22.45)	0.9943	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514073	vacuolar protein sorting 13D isoform 2	S 1729	99% (22.45)	0.9943	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00169307	Rho GTPase activating protein 21	S 1503	99% (27.19)	0.9943	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00456631	Isoform 1 of Lysine-specific histone demethylase 1	S 131	99% (27.19)	0.9943	2	3	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00015580	formin binding protein 1-like isoform 2	S 295	99% (27.16)	0.9943	7	7	0	0	2	1	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0
IPI00028718	Formin binding protein 1-like	S 295	99% (27.16)	0.9943	7	7	0	0	2	1	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0
IPI00333420	Serine/threonine-protein kinase SRPK2	S 494	99% (27.16)	0.9943	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00396412	SFRS protein kinase 2 isoform a	S 505	99% (27.16)	0.9943	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00607808	formin binding protein 1-like isoform 1	S 295	99% (27.16)	0.9943	7	7	0	0	2	1	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0
IPI00646028	Formin binding protein 1-like	S 295	99% (27.16)	0.9943	7	7	0	0	2	1	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0
IPI00549473	PREDICTED: similar to Forkhead box protein K1 (Myocyte nuclear factor) (MNF) isoform 1	S 136	99% (22.08)	0.9942	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00556645	forkhead box K1	S 299	99% (22.08)	0.9942	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00029484	Isoform 1 of Zinc finger MYM-type protein 3	S 464	99% (11.12)	0.9941	3	5	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0
IPI00031605	AHNAK nucleoprotein, isoform 2	S 42	99% (13.08)	0.9941	2	10	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	1	0	0	0	1	1	1	0	1	0	1	1
IPI00219027	Isoform 2 of Zinc finger MYM-type protein 3	S 464	99% (11.12)	0.9941	3	5	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0
IPI00641109	153 kDa protein	S 466	99% (11.12)	0.9941	3	5	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0
IPI00642326	142 kDa protein	S 466	99% (11.12)	0.9941	3	5	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0
IPI00010746	Phosphatidylserine synthase 1	S 452	99% (25.11)	0.9940	2	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00009544	RalA-binding protein 1	S 644	99% (11.10)	0.9940	7	9	0	0	2	0	0	0	0	2	2	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	2	2	0	0	0	0	2	1	0	0	0
IPI00010544	Isoform 1 of Tight junction-associated protein 1	S 545	99% (11.10)	0.9940	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00013721	Serine/threonine-protein kinase PRP4 homolog	S 328	99% (11.10)	0.9940	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00023095	Myeloid leukemia factor 2	S 238	99% (11.10)	0.9940	3	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00026320	Ubiquitin-protein ligase EDD1	S 1549	99% (11.10)	0.9940	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00060181	EF-hand domain-containing protein 2	S 74	99% (11.10)	0.9940	9	13	0	0	0	0	2	0	0	0	0	0	4	0	0	0	0	0	3	0	0	0	0	2	0	0	0	0	0	1	3	0	0	0	0	4	3	0
IPI00304589	182 kDa tankyrase 1-binding protein	S 1652	99% (11.10)	0.9940	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00552365	EF hand domain containing 2	S 74	99% (11.10)	0.9940	9	13	0	0	0	0	2	0	0	0	0	0	4	0	0	0	0	0	3	0	0	0	0	2	0	0	0	0	0	1	3	0	0	0	0	4	3	0
IPI00604517	74 kDa protein	S 67	99% (11.10)	0.9940	6	6	0	3	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0
IPI00643168	Isoform 2 of Tight junction-associated protein 1	S 535	99% (11.10)	0.9940	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00645814	KIAA1187 protein	S 70	99% (11.10)	0.9940	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00654605	Hypothetical protein RPRC1	S 70	99% (11.10)	0.9940	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00654613	Isoform 4 of Tight junction-associated protein 1	S 470	99% (11.10)	0.9940	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00741894	PREDICTED: similar to E3 ubiquitin protein ligase, HECT domain containing, 1	S 1475	99% (11.10)	0.9940	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00013721	Serine/threonine-protein kinase PRP4 homolog	S 578	99% (11.10)	0.9940	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00376976	Isoform 1 of 130-kDa phosphatidylinositol 4,5-biphosphate-dependent ARF1 GTPase- activating protein	S 842	99% (11.10)	0.9940	5	10	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	2	3	0	0	0	0
IPI00410303	development and differentiation enhancing factor 1	S 839	99% (11.10)	0.9940	5	10	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	2	3	0	0	0	0
IPI00064382	CDNA FLJ14681 fis, clone NT2RP2004270, weakly similar to PROTEIN PTM1	S 470	99% (26.96)	0.9940	5	3	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00009771	Lamin-B2	S 37	99% (11.10)	0.9939	2	6	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	2	1	0	0	0
IPI00029740	sorting nexin 3 isoform a	S 72	99% (11.06)	0.9939	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00045360	Protein capicua homolog	S 1245	99% (11.06)	0.9939	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00185027	Isoform 1 of Arginine-glutamic acid dipeptide repeats protein	S 600	99% (11.06)	0.9939	3	3	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00290562	nuclear factor, interleukin 3 regulated	S 285	99% (11.06)	0.9939	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00291916	pleckstrin homology domain interacting protein	S 1222	99% (11.06)	0.9939	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00335634	Isoform Beta of Paxillin	S 303	99% (11.06)	0.9939	11	12	0	1	2	2	0	0	0	0	2	2	0	0	0	0	0	2	0	0	0	1	2	1	0	0	0	0	3	2	0	0	0	0	1	2	0	0
IPI00394829	hypothetical protein LOC286077	S 924	99% (11.06)	0.9939	3	3	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00165970	Isoform 1 of DGCR8 protein	S 377	99% (28.13)	0.9939	10	6	1	1	0	0	0	0	2	2	0	0	0	0	1	3	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0
IPI00549380	Isoform 3 of DGCR8 protein	S 377	99% (28.13)	0.9939	10	6	1	1	0	0	0	0	2	2	0	0	0	0	1	3	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0
IPI00328293	Serine₩/arginine repetitive matrix 1	S 614	99% (11.06)	0.9939	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00290652	remodeling and spacing factor 1	S 1282	99% (24.44)	0.9939	9	7	3	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	3	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
IPI00514411	Isoform 2 of Hepatitis B virus X-associated protein	S 1241	99% (24.44)	0.9939	9	7	3	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	3	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
IPI00168350	CDNA FLJ90669 fis, clone PLACE1005519, moderately similar to Homo sapiens STE20-like kinase 3 (mst-	S 300	99% (29.84)	0.9938	3	5	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0
IPI00182383	Serine/threonine protein kinase MST4a	S 238	99% (29.84)	0.9938	3	5	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0
IPI00292827	Serine/threonine-protein kinase MST4	S 300	99% (29.84)	0.9938	3	5	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0
IPI00748920	splicing coactivator subunit SRm300	S 435	99% (22.07)	0.9938	5	6	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00472901	chromodomain helicase DNA binding protein 7	S 2956	99% (22.08)	0.9938	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00021954	Golgi-specific brefeldin A-resistance guanine nucleotide exchange factor 1	S 1298	99% (26.82)	0.9938	10	8	2	1	0	0	0	0	2	1	0	0	0	0	2	1	1	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	2	1	1	0	0	0
IPI00027172	Isoform Long of Restin	S 204	99% (28.07)	0.9938	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00217113	Isoform Short of Restin	S 204	99% (28.07)	0.9938	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00299904	Isoform 1 of DNA replication licensing factor MCM7	S 121	99% (22.06)	0.9938	3	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00006038	Isoform 1 of Nuclear pore complex protein Nup98-Nup96 precursor	S 934	99% (11.01)	0.9938	3	2	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00179953	Isoform 1 of Nuclear autoantigenic sperm protein	S 421	99% (11.01)	0.9938	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00332499	nuclear autoantigenic sperm protein isoform 1	S 423	99% (11.01)	0.9938	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	S 325	99% (23.93)	0.9938	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00410330	Isoform 1 of Transcriptional repressor p66 alpha	S 114	99% (11.06)	0.9937	9	11	1	0	2	1	0	0	2	1	1	0	0	0	0	0	1	0	0	0	0	2	2	0	0	0	0	1	1	0	0	0	1	2	2	0	0	0
IPI00444526	Isoform 2 of Transcriptional repressor p66 alpha	S 114	99% (11.06)	0.9937	9	11	1	0	2	1	0	0	2	1	1	0	0	0	0	0	1	0	0	0	0	2	2	0	0	0	0	1	1	0	0	0	1	2	2	0	0	0
IPI00478128	GATA zinc finger domain containing 2A	S 133	99% (11.06)	0.9937	9	11	1	0	2	1	0	0	2	1	1	0	0	0	0	0	1	0	0	0	0	2	2	0	0	0	0	1	1	0	0	0	1	2	2	0	0	0
IPI00221394	H/ACA ribonucleoprotein complex subunit 4	S 493	99% (22.01)	0.9937	30	33	1	1	6	1	0	0	2	2	6	1	0	0	3	1	5	0	1	0	4	2	2	1	0	0	4	2	4	1	1	0	2	2	6	2	0	0
IPI00006079	Isoform 1 of Bcl-2-associated transcription factor 1	S 198	99% (22.01)	0.9937	1	4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00401147	Isoform 1 of Sad1/unc-84 protein-like 1	S 239	99% (27.96)	0.9937	13	16	2	2	0	0	0	0	2	2	0	0	0	0	2	3	0	0	0	0	2	3	0	0	0	0	3	2	0	0	0	0	3	3	0	0	0	0
IPI00413362	signal-induced proliferation-associated 1 like 1	S 1549	99% (22.01)	0.9937	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413671	Isoform 2 of Bcl-2-associated transcription factor 1	S 196	99% (22.01)	0.9937	1	4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00413672	Isoform 3 of Bcl-2-associated transcription factor 1	S 196	99% (22.01)	0.9937	1	4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00435422	Isoform 2 of Signal-induced proliferation-associated 1-like protein 1	S 1528	99% (22.01)	0.9937	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010700	Isoform 1 of Large proline-rich protein BAT2	S 363	99% (22.01)	0.9937	5	3	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00017292	Isoform 1 of Beta-catenin	S 552	99% (22.01)	0.9937	16	18	2	3	1	0	0	0	2	3	1	0	0	0	1	2	1	0	0	0	1	3	2	0	0	0	2	3	2	0	0	0	1	3	1	0	0	0
IPI00031563	Hypothetical protein DDA1	S 95	99% (22.01)	0.9937	6	7	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	2	1	0	0	0	2	0	0	0	0	0	0	2	0
IPI00084746	229 kDa protein	S 363	99% (22.01)	0.9937	5	3	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00376933	HLA-B associated transcript-2 isoform b	S 363	99% (22.01)	0.9937	5	3	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00742934	HLA-B associated transcript-2 isoform a	S 363	99% (22.01)	0.9937	5	3	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00306087	WDR79 protein	S 90	99% (28.96)	0.9937	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00550506	Isoform 1 of Rho guanine nucleotide exchange factor 16	S 230	99% (28.96)	0.9937	4	5	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0
IPI00477701	golgi SNAP receptor complex member 1 isoform 2	S 49	99% (27.96)	0.9936	3	3	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1101	99% (27.96)	0.9936	11	4	2	1	0	0	0	0	4	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00384689	Hypothetical protein KIAA0251	S 718	99% (27.96)	0.9936	5	6	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0
IPI00304589	182 kDa tankyrase 1-binding protein	S 601	99% (24.93)	0.9936	9	9	2	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	2	2	0	0	0	0	2	1	0	0	0	0	0	2	0	0	0	0
IPI00001134	CDNA FLJ11153 fis, clone PLACE1006917, weakly similar to HSH49 PROTEIN	S 137	99% (21.94)	0.9936	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00003843	Isoform A1 of Tight junction protein ZO-2	S 266	99% (21.94)	0.9936	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00025512	Heat-shock protein beta-1	S 82	99% (21.94)	0.9936	7	9	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	1	1	1	0	0	0	2	1	0	0
IPI00152011	PTPL1-associated RhoGAP 1	S 949	99% (21.94)	0.9936	4	3	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00161085	Isoform 1 of Nucleolar protein 8	S 1105	99% (21.94)	0.9936	7	4	1	1	1	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00181905	Isoform 1 of Protein KIAA1914	S 344	99% (21.94)	0.9936	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0
IPI00455138	IMP dehydrogenase/GMP reductase family protein	S 372	99% (21.94)	0.9936	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0
IPI00480054	Isoform 3 of Nucleolar protein 8	S 973	99% (21.94)	0.9936	7	4	1	1	1	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00643700	Isoform 4 of Nucleolar protein 8	S 1061	99% (21.94)	0.9936	7	4	1	1	1	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00747510	RNA-binding protein 7	S 136	99% (21.94)	0.9936	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00759630	Isoform 2 of Nucleolar protein 8	S 1031	99% (21.94)	0.9936	7	4	1	1	1	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00009146	FLN29 gene product	S 415	99% (21.94)	0.9936	11	5	1	0	1	1	1	0	1	1	1	0	1	0	0	1	1	0	1	0	0	1	1	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0
IPI00165995	Isoform 1 of Splicing factor, arginine/serine-rich 130	S 768	99% (23.84)	0.9936	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00644521	36 kDa protein	S 137	99% (24.23)	0.9936	2	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1501	99% (11.06)	0.9935	4	0	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00064382	CDNA FLJ14681 fis, clone NT2RP2004270, weakly similar to PROTEIN PTM1	S 535	99% (26.61)	0.9935	5	4	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00019471	Insulin receptor substrate 1	S 527	99% (26.31)	0.9935	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00554715	fragile X mental retardation-related protein 1 isoform b	S 406	99% (30.85)	0.9935	11	6	1	2	2	0	0	0	1	2	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00297931	Isoform 1 of AP1 gamma subunit-binding protein 1	S 752	99% (24.82)	0.9934	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00375252	AP1GBP1 protein	S 674	99% (24.82)	0.9934	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00394715	AP1 gamma subunit binding protein 1 isoform 2	S 752	99% (24.82)	0.9934	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00218136	137 kDa protein	S 165	99% (29.53)	0.9934	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00515042	cingulin	S 165	99% (29.53)	0.9934	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00019848	Isoform 1 of Host cell factor	S 1838	99% (27.74)	0.9933	2	4	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00219326	Isoform 2 of Host cell factor	S 1769	99% (27.74)	0.9933	2	4	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00171475	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 interacting protein	S 88	99% (11.75)	0.9933	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00184330	DNA replication licensing factor MCM2	S 53	99% (10.83)	0.9932	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00019835	Isoform 1 of Bcl-2-related proline-rich protein	S 121	99% (21.68)	0.9932	2	4	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00306749	Kanadaptin	S 466	99% (21.68)	0.9932	9	9	0	3	0	0	0	0	1	3	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	1	2	0	0	0	0
IPI00410717	Isoform 1 of Pogo transposable element with ZNF domain	S 425	99% (26.42)	0.9932	12	11	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	1	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0
IPI00410718	pogo transposable element with ZNF domain isoform 2	S 372	99% (26.42)	0.9932	12	11	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	1	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0
IPI00410719	Isoform 3 of Pogo transposable element with ZNF domain	S 372	99% (26.42)	0.9932	12	11	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	1	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0
IPI00514078	Pogo transposable element with ZNF domain	S 330	99% (26.42)	0.9932	12	11	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	1	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0
IPI00514439	pogo transposable element with ZNF domain isoform 1	S 425	99% (26.42)	0.9932	12	11	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	1	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0
IPI00514770	Pogo transposable element with ZNF domain	S 372	99% (26.42)	0.9932	12	11	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	1	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0
IPI00186194	KARP-1-binding protein	S 1530	99% (26.35)	0.9931	3	7	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	1	1	0	0	1	1	0	1	0	0	0	0	0	1	0	0
IPI00007248	Pleckstrin homology domain-containing family A member 6	S 777	99% (26.31)	0.9930	10	12	0	1	0	1	0	0	1	2	0	1	0	0	2	2	0	0	0	0	1	1	1	1	0	0	2	1	0	1	0	0	1	2	0	1	0	0
IPI00008918	Isoform Beta of LIM domain and actin-binding protein 1	S 369	99% (26.31)	0.9930	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	S 1056	99% (26.31)	0.9930	4	4	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00022479	guanine nucleotide exchange factor p532	S 2720	99% (26.31)	0.9930	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00152011	PTPL1-associated RhoGAP 1	S 589	99% (26.31)	0.9930	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0
IPI00291607	Inositol 1,4,5-trisphosphate receptor type 3	S 1832	99% (26.31)	0.9930	4	3	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00297579	Chromobox protein homolog 3	S 95	99% (26.31)	0.9930	5	3	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00375358	Isoform 1 of Replication factor C subunit 1	S 69	99% (26.31)	0.9930	5	7	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0
IPI00375359	Isoform 2 of Replication factor C subunit 1	S 69	99% (26.31)	0.9930	5	7	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0
IPI00398505	Ubiquitin carboxyl-terminal hydrolase 24	S 2561	99% (26.31)	0.9930	4	4	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00413362	signal-induced proliferation-associated 1 like 1	S 1585	99% (26.31)	0.9930	9	3	1	0	0	1	1	0	1	0	0	1	1	0	1	0	0	1	1	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00435422	Isoform 2 of Signal-induced proliferation-associated 1-like protein 1	S 1564	99% (26.31)	0.9930	9	3	1	0	0	1	1	0	1	0	0	1	1	0	1	0	0	1	1	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00477104	Pleckstrin homology domain containing, family A member 6	S 797	99% (26.31)	0.9930	10	12	0	1	0	1	0	0	1	2	0	1	0	0	2	2	0	0	0	0	1	1	1	1	0	0	2	1	0	1	0	0	1	2	0	1	0	0
IPI00445401	Isoform 2 of HECT, UBA and WWE domain-containing protein 1	S 3741	99% (26.31)	0.9930	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00456919	Isoform 1 of HECT, UBA and WWE domain-containing protein 1	S 3757	99% (26.31)	0.9930	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00556619	TXNDC14 protein	S 244	99% (26.31)	0.9930	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00643153	Isoform 3 of HECT, UBA and WWE domain-containing protein 1	S 3748	99% (26.31)	0.9930	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00470483	WD repeat domain 62	S 1348	99% (24.51)	0.9930	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00030131	thymopoietin isoform beta	S 177	99% (24.34)	0.9929	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00220834	ATP-dependent DNA helicase 2 subunit 2	S 459	99% (13.92)	0.9929	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00007764	hematological and neurological expressed 1 isoform 1	S 88	99% (24.44)	0.9928	3	6	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	1	1	0
IPI00100453	DENN domain containing protein	S 973	99% (24.44)	0.9928	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00217121	Protein C19orf21	S 394	99% (24.44)	0.9928	7	4	0	1	1	0	0	0	0	1	0	1	0	0	1	1	1	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0
IPI00294742	HDCMA18P protein	S 298	99% (24.44)	0.9928	6	15	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	3	4	0	0	0
IPI00384857	Isoform 2 of Hematological and neurological expressed 1 protein	S 87	99% (24.44)	0.9928	3	6	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	1	1	0
IPI00746398	hypothetical protein LOC55667	S 1089	99% (24.44)	0.9928	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00759546	Isoform 5 of Afadin	S 1082	99% (24.44)	0.9928	4	0	0	1	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00414481	Isoform 1 of General transcription factor 3C polypeptide 1	S 1063	99% (24.44)	0.9928	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00414482	Isoform 2 of General transcription factor 3C polypeptide 1	S 1083	99% (24.44)	0.9928	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00217240	WD-repeat protein 75	S 796	99% (24.44)	0.9928	4	6	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00419847	Isoform Alpha of Vinexin	S 563	99% (24.44)	0.9928	4	5	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0
IPI00472540	Isoform Beta of Vinexin	S 221	99% (24.44)	0.9928	4	5	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0
IPI00177381	hypothetical protein LOC57703	S 27	99% (14.68)	0.9928	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00657953	triple functional domain	S 1723	99% (10.68)	0.9927	6	6	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00395444	Calmodulin regulated spectrin-associated protein 1	S 297	99% (26.11)	0.9927	3	3	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00294619	Protein TFG	S 197	99% (24.34)	0.9927	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00297452	TRK-fused gene/anaplastic large cell lymphoma kinase extra long form	S 197	99% (24.34)	0.9927	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00373870	Isoform 1 of Chromodomain helicase-DNA-binding protein 3	S 324	99% (29.09)	0.9926	6	4	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0
IPI00465222	chromodomain helicase DNA binding protein 3 isoform 3	S 369	99% (29.09)	0.9926	6	4	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0
IPI00032150	Isoform 1 of Phosphatidate cytidylyltransferase 2	S 33	99% (24.32)	0.9926	15	8	3	4	1	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0	2	0	1	0	0	0	3	1	0	0	0	0	1	0	0	0	0	0
IPI00018914	Tyrosine-protein phosphatase non-receptor type 14	S 486	99% (24.32)	0.9926	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00477949	zinc finger protein 262	S 1542	99% (10.64)	0.9926	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00513965	Zinc finger protein 262	S 1397	99% (10.64)	0.9926	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00036742	hypothetical protein LOC25962 isoform 1	S 133	99% (21.30)	0.9926	4	5	0	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0
IPI00260388	PHD finger protein 2	S 474	99% (21.30)	0.9926	2	4	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00376493	PHD finger protein 2 isoform b	S 474	99% (21.30)	0.9926	2	4	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00477501	121 kDa protein	S 473	99% (21.30)	0.9926	2	4	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00003394	Isoform SMN of Survival motor neuron protein	S 28	99% (24.24)	0.9925	13	17	1	0	0	3	0	0	0	0	0	3	0	0	1	0	0	4	1	0	0	0	1	8	0	0	1	0	0	3	0	0	0	0	0	4	0	0
IPI00009597	Isoform SMN-delta7 of Survival motor neuron protein	S 28	99% (24.24)	0.9925	13	17	1	0	0	3	0	0	0	0	0	3	0	0	1	0	0	4	1	0	0	0	1	8	0	0	1	0	0	3	0	0	0	0	0	4	0	0
IPI00009598	Isoform SMN-delta57 of Survival motor neuron protein	S 28	99% (24.24)	0.9925	13	17	1	0	0	3	0	0	0	0	0	3	0	0	1	0	0	4	1	0	0	0	1	8	0	0	1	0	0	3	0	0	0	0	0	4	0	0
IPI00031195	Isoform 1 of Vang-like protein 1	S 339	99% (24.24)	0.9925	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
IPI00219360	Isoform SMN-delta5 of Survival motor neuron protein	S 28	99% (24.24)	0.9925	13	17	1	0	0	3	0	0	0	0	0	3	0	0	1	0	0	4	1	0	0	0	1	8	0	0	1	0	0	3	0	0	0	0	0	4	0	0
IPI00386349	Isoform 2 of Vang-like protein 1	S 337	99% (24.24)	0.9925	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00414779	DNA excision repair protein ERCC-6	S 1142	99% (24.24)	0.9925	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00009922	DC50	S 102	99% (10.61)	0.9925	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00000685	Cell division protein kinase 7	S 321	99% (10.60)	0.9925	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00298731	Serine/threonine-protein phosphatase 1 regulatory subunit 10	S 591	99% (25.98)	0.9925	2	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00032236	Isoform 2 of Angiomotin-like protein 2	S 540	99% (25.95)	0.9924	2	5	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0
IPI00478030	Isoform 1 of Angiomotin-like protein 2	S 540	99% (25.95)	0.9924	2	5	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0
IPI00411635	KIAA0802 protein	S 184	99% (27.19)	0.9924	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00216540	Isoform 4 of Protein kinase C-binding protein 1	S 56	99% (25.17)	0.9924	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00418316	RACK7 isoform e	S 452	99% (25.17)	0.9924	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00640598	protein kinase C binding protein 1 isoform a	S 452	99% (25.17)	0.9924	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00718938	Isoform 6 of Protein kinase C-binding protein 1	S 287	99% (25.17)	0.9924	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00719682	Isoform 7 of Protein kinase C-binding protein 1	S 451	99% (25.17)	0.9924	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00740207	RACK7 isoform j	S 427	99% (25.17)	0.9924	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00741204	RACK7 isoform f	S 427	99% (25.17)	0.9924	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748579	RACK7 isoform d	S 427	99% (25.17)	0.9924	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00409640	LISCH protein isoform 2	S 540	99% (26.79)	0.9924	3	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00409641	LISCH protein isoform 3	S 472	99% (26.79)	0.9924	3	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00641640	LISCH protein isoform 1	S 521	99% (26.79)	0.9924	3	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00397526	Myosin-10	S 1956	99% (24.17)	0.9924	5	5	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00295425	BC282485_1	S 334	99% (11.01)	0.9924	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00010368	Kinesin-like protein KIF2	S 120	99% (28.13)	0.9924	3	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00158615	Isoform 1 of THO complex subunit 2	S 1342	99% (28.13)	0.9923	5	9	1	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	2	0	0	1	0	0	2	0	1	1	0	0	1	0	0	1	0	0
IPI00604517	74 kDa protein	S 42	99% (21.12)	0.9923	15	15	0	5	0	0	0	0	0	4	0	0	0	0	0	6	0	0	0	0	0	5	0	0	0	0	0	5	0	0	0	0	0	5	0	0	0	0
IPI00064767	nadrin isoform 1	S 575	99% (28.80)	0.9921	4	8	0	0	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	1	0	1	0	0	0	0	2	1	0	0	0	1	1	1	0	0	0
IPI00554715	fragile X mental retardation-related protein 1 isoform b	S 409	99% (30.02)	0.9921	13	13	0	1	2	0	0	0	2	1	3	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	1	2	1	0	0	0	0	2	3	0	0	0
IPI00001364	Isoform A of GC-rich sequence DNA-binding factor homolog	S 557	99% (25.69)	0.9921	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00069267	Isoform B of GC-rich sequence DNA-binding factor homolog	S 557	99% (25.69)	0.9921	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00294391	Cdc42 effector protein 3	S 89	99% (27.96)	0.9921	2	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0
IPI00644521	36 kDa protein	S 188	99% (24.40)	0.9920	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00008918	Isoform Beta of LIM domain and actin-binding protein 1	S 604	99% (27.94)	0.9920	14	20	1	2	1	1	0	0	1	1	1	1	0	0	1	2	1	1	0	0	1	3	1	1	0	0	2	3	1	1	0	0	2	3	1	1	0	0
IPI00619921	Isoform 4 of Death-inducer obliterator 1	S 898	99% (26.97)	0.9920	10	12	2	1	1	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	3	1	1	0	0	0	3	1	0	0	0	0
IPI00419322	hepatoma-derived growth factor-related protein 2 isoform 1	S 396	99% (14.02)	0.9919	2	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00645387	hepatoma-derived growth factor-related protein 2 isoform 2	S 396	99% (14.02)	0.9919	2	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00414481	Isoform 1 of General transcription factor 3C polypeptide 1	S 740	99% (29.31)	0.9919	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00414482	Isoform 2 of General transcription factor 3C polypeptide 1	S 760	99% (29.31)	0.9919	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00166512	stromal interaction molecule 1 precursor	S 618	99% (27.83)	0.9918	5	5	0	0	1	1	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	1	0	0	1	0	0	0
IPI00299063	Stromal interaction molecule 1 precursor	S 618	99% (27.83)	0.9918	5	5	0	0	1	1	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	1	0	0	1	0	0	0
IPI00470901	215 kDa protein	S 1834	99% (10.42)	0.9918	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00746684	dedicator of cytokinesis 5	S 1834	99% (10.42)	0.9918	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00004068	Mediator of RNA polymerase II transcription subunit 12	S 689	99% (11.06)	0.9918	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00640149	243 kDa protein	S 654	99% (11.06)	0.9918	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00745010	TNRC11 protein	S 501	99% (11.06)	0.9918	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00012079	Eukaryotic translation initiation factor 4B	S 498	99% (26.31)	0.9918	8	13	1	1	0	0	0	0	1	2	1	0	0	0	1	1	0	0	0	0	1	2	2	0	0	0	1	2	1	0	0	0	1	1	2	0	0	0
IPI00220834	ATP-dependent DNA helicase 2 subunit 2	S 461	99% (13.29)	0.9917	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00059242	Synapse-associated protein 1	S 75	99% (11.10)	0.9917	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00376404	fetal Alzheimer antigen isoform 2	S 572	99% (10.34)	0.9915	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 1101	99% (20.70)	0.9915	13	13	4	0	1	0	0	0	3	1	0	0	0	0	3	1	0	0	0	0	4	1	0	0	0	0	3	1	0	0	0	0	4	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 1106	99% (20.70)	0.9915	13	13	4	0	1	0	0	0	3	1	0	0	0	0	3	1	0	0	0	0	4	1	0	0	0	0	3	1	0	0	0	0	4	0	0	0	0	0
IPI00554788	Keratin, type I cytoskeletal 18	S 312	99% (20.70)	0.9915	6	6	0	1	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	1	1	0	0	0
IPI00745557	ankyrin repeat domain protein 17 isoform a	S 2053	99% (26.31)	0.9915	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00101942	Calmin	S 841	99% (23.62)	0.9914	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220754	Isoform 1 of Gamma-adducin	S 645	99% (20.41)	0.9914	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005688	Zinc finger protein 185	S 287	99% (26.57)	0.9913	4	5	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	2	0	0	0	0	0	0	0	1	0	0
IPI00328293	Serine₩/arginine repetitive matrix 1	S 409	99% (23.44)	0.9910	2	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	S 877	99% (20.41)	0.9910	6	7	0	0	0	0	0	0	2	0	0	0	0	0	3	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0
IPI00019996	modulator of estrogen induced transcription isoform b	S 984	99% (23.42)	0.9910	3	6	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	3	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0
IPI00171749	modulator of estrogen induced transcription isoform a	S 1002	99% (23.42)	0.9910	3	6	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	3	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0
IPI00022348	Isoform PML-1 of Probable transcription factor PML	S 36	99% (20.41)	0.9910	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220453	Isoform PML-X of Probable transcription factor PML	S 36	99% (20.41)	0.9910	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00303999	Isoform PML-2 of Probable transcription factor PML	S 36	99% (20.41)	0.9910	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00304000	Isoform PML-3 of Probable transcription factor PML	S 36	99% (20.41)	0.9910	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00332110	promyelocytic leukemia protein isoform 9	S 36	99% (20.41)	0.9910	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00472901	chromodomain helicase DNA binding protein 7	S 2275	99% (20.41)	0.9910	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00386211	family with sequence similarity 44, member A	S 2779	99% (20.41)	0.9909	10	8	2	0	0	0	0	0	4	0	0	0	0	0	2	2	0	0	0	0	2	1	0	0	0	0	1	2	0	0	0	0	2	0	0	0	0	0
IPI00005024	Isoform 1 of Myb-binding protein 1A	S 1267	99% (20.41)	0.9909	32	30	5	5	0	0	0	0	5	5	0	0	0	0	6	5	1	0	0	0	5	6	0	0	0	0	6	3	0	0	0	0	5	5	0	0	0	0
IPI00021537	Isoform 1 of Opioid growth factor receptor	S 557	99% (20.41)	0.9909	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00021595	Glucocorticoid induced transcript 1	S 223	99% (20.41)	0.9909	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00022970	Nucleoprotein TPR	S 380	99% (20.41)	0.9909	2	6	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0
IPI00069817	Isoform 1 of Bromodomain adjacent to zinc finger domain protein 1B	S 347	99% (20.41)	0.9909	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00164951	P40	S 18	99% (20.41)	0.9909	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00172474	Isoform 2 of Zinc finger protein 91 homolog	S 83	99% (20.41)	0.9909	9	12	1	1	2	0	1	0	1	0	0	0	1	0	1	0	0	0	1	0	1	1	0	0	1	0	1	1	1	0	1	1	1	1	0	0	1	1
IPI00216695	Isoform 2 of Bromodomain adjacent to zinc finger domain protein 1B	S 347	99% (20.41)	0.9909	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00298454	40 kDa protein	S 18	99% (20.41)	0.9909	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00377154	bromodomain adjacent to zinc finger domain, 1B	S 347	99% (20.41)	0.9909	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00394829	hypothetical protein LOC286077	S 892	99% (20.41)	0.9909	6	8	1	1	0	0	0	0	1	0	0	0	0	0	0	2	1	0	0	0	2	2	0	1	0	0	0	0	1	0	0	0	0	1	1	0	0	0
IPI00477661	Isoform 1 of Zinc finger protein 91 homolog	S 83	99% (20.41)	0.9909	9	12	1	1	2	0	1	0	1	0	0	0	1	0	1	0	0	0	1	0	1	1	0	0	1	0	1	1	1	0	1	1	1	1	0	0	1	1
IPI00607584	Isoform 2 of Myb-binding protein 1A	S 1267	99% (20.41)	0.9909	32	30	5	5	0	0	0	0	5	5	0	0	0	0	6	5	1	0	0	0	5	6	0	0	0	0	6	3	0	0	0	0	5	5	0	0	0	0
IPI00737644	P40	S 18	99% (20.41)	0.9909	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00738062	P40	S 18	99% (20.41)	0.9909	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1198	99% (20.41)	0.9909	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00028392	specifically androgen-regulated protein	S 502	99% (27.35)	0.9909	3	4	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0
IPI00333010	SR-related CTD associated factor 6	S 815	99% (31.70)	0.9909	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00642935	Calcium homeostasis endoplasmic reticulum protein	S 783	99% (31.70)	0.9909	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00745557	ankyrin repeat domain protein 17 isoform a	S 803	99% (28.13)	0.9909	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00181556	CDNA FLJ90551 fis, clone OVARC1000779, weakly similar to ZINC FINGER PROTEIN 157	S 366	99% (25.11)	0.9908	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0
IPI00217340	KIBRA protein	S 899	99% (25.11)	0.9908	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
IPI00242962	KIAA1618 protein (Fragment)	S 82	99% (25.11)	0.9908	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00401752	KIAA1285 protein	S 310	99% (25.11)	0.9908	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0
IPI00293884	Kinesin-like protein KIF23	S 686	99% (12.16)	0.9908	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00395568	Isoform 1 of PHD finger protein 6	S 145	99% (20.82)	0.9908	3	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00298696	Treacle protein	S 1151	99% (26.31)	0.9907	5	7	1	0	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	1	1	1	0	0	0	1	0	1	0	0	0
IPI00479145	Keratin, type I cytoskeletal 19	S 10	99% (26.31)	0.9907	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00747047	Treacle major isoform	S 1228	99% (26.31)	0.9907	5	7	1	0	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	1	1	1	0	0	0	1	0	1	0	0	0
IPI00013214	DNA replication licensing factor MCM3	S 711	99% (26.31)	0.9907	11	11	1	2	1	0	0	0	3	1	0	0	0	0	1	2	0	0	0	0	1	3	0	0	0	0	1	1	0	0	0	0	1	2	2	0	0	0
IPI00166512	stromal interaction molecule 1 precursor	S 519	99% (26.31)	0.9907	19	21	2	3	2	0	1	0	2	2	2	0	0	0	1	2	2	0	0	0	1	3	1	0	1	0	1	3	2	1	1	0	1	2	2	1	1	0
IPI00292059	Nuclear pore complex protein Nup153	S 516	99% (26.31)	0.9907	3	5	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00297931	Isoform 1 of AP1 gamma subunit-binding protein 1	S 473	99% (26.31)	0.9907	2	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00299063	Stromal interaction molecule 1 precursor	S 519	99% (26.31)	0.9907	19	21	2	3	2	0	1	0	2	2	2	0	0	0	1	2	2	0	0	0	1	3	1	0	1	0	1	3	2	1	1	0	1	2	2	1	1	0
IPI00375252	AP1GBP1 protein	S 395	99% (26.31)	0.9907	2	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00394715	AP1 gamma subunit binding protein 1 isoform 2	S 473	99% (26.31)	0.9907	2	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00480157	154 kDa protein	S 516	99% (26.31)	0.9907	3	5	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00514528	nucleoporin 153kDa	S 516	99% (26.31)	0.9907	3	5	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00008708	Ribosomal L1 domain-containing protein 1	S 413	99% (10.14)	0.9907	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00216540	Isoform 4 of Protein kinase C-binding protein 1	S 49	99% (10.14)	0.9907	2	5	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0
IPI00418316	RACK7 isoform e	S 445	99% (10.14)	0.9907	2	5	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0
IPI00640598	protein kinase C binding protein 1 isoform a	S 445	99% (10.14)	0.9907	2	5	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0
IPI00718938	Isoform 6 of Protein kinase C-binding protein 1	S 280	99% (10.14)	0.9907	2	5	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0
IPI00719682	Isoform 7 of Protein kinase C-binding protein 1	S 444	99% (10.14)	0.9907	2	5	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0
IPI00740207	RACK7 isoform j	S 420	99% (10.14)	0.9907	2	5	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0
IPI00741204	RACK7 isoform f	S 420	99% (10.14)	0.9907	2	5	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0
IPI00748579	RACK7 isoform d	S 420	99% (10.14)	0.9907	2	5	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0
IPI00449906	Isoform 1 of Rho guanine nucleotide exchange factor 7	S 79	99% (25.06)	0.9907	6	3	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00641543	Rho guanine nucleotide exchange factor (GEF) 7	S 79	99% (25.06)	0.9907	6	3	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00185919	Isoform 1 of La-related protein 1	S 631	99% (22.99)	0.9907	13	9	0	3	0	0	0	0	2	3	0	0	0	0	2	3	0	0	0	0	2	3	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0
IPI00032491	Inner nuclear membrane protein Man1	S 144	99% (23.23)	0.9906	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00185326	Isoform 1 of JmjC domain-containing histone demethylation protein 1B	S 964	99% (20.17)	0.9906	2	2	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00455183	F-box and leucine-rich repeat protein 10 isoform b	S 895	99% (20.17)	0.9906	2	2	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00737594	Isoform 3 of JmjC domain-containing histone demethylation protein 1B	S 952	99% (20.17)	0.9906	2	2	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00747262	Isoform 2 of JmjC domain-containing histone demethylation protein 1B	S 967	99% (20.17)	0.9906	2	2	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00020956	Hepatoma-derived growth factor	S 239	99% (10.10)	0.9905	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00328929	Conserved nuclear protein NHN1	S 842	99% (20.22)	0.9905	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00302149	Isoform 1 of Polyhomeotic-like protein 3	S 815	99% (10.14)	0.9905	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00658100	Isoform 2 of Polyhomeotic-like protein 3	S 796	99% (10.14)	0.9905	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00059687	Isoform 1 of Protein C18orf25	S 66	99% (27.96)	0.9905	8	11	1	0	1	2	0	0	0	0	0	1	0	0	0	0	1	1	1	0	1	0	1	1	0	0	0	0	2	2	1	0	0	0	2	1	0	0
IPI00152407	Isoform 2 of Protein C18orf25	S 66	99% (27.96)	0.9905	8	11	1	0	1	2	0	0	0	0	0	1	0	0	0	0	1	1	1	0	1	0	1	1	0	0	0	0	2	2	1	0	0	0	2	1	0	0
IPI00334715	172 kDa protein	S 1134	99% (27.16)	0.9905	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00477498	Isoform 1 of Glucocorticoid receptor DNA-binding factor 1	S 1134	99% (27.16)	0.9905	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00718985	Isoform 2 of Glucocorticoid receptor DNA-binding factor 1	S 1134	99% (27.16)	0.9905	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00291016	NADH-ubiquinone oxidoreductase flavoprotein 3 isoform a precursor	S 164	99% (31.27)	0.9904	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00005087	Tropomodulin-3	S 25	99% (20.17)	0.9904	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00019870	Isoform Alpha of Caveolin-2	S 23	99% (24.88)	0.9903	15	15	1	0	0	1	1	0	2	0	0	1	2	0	3	1	0	0	3	0	1	1	0	0	4	0	2	0	0	1	2	0	0	0	1	3	0	0
IPI00386526	caveolin 2 isoform c	S 23	99% (24.88)	0.9903	15	15	1	0	0	1	1	0	2	0	0	1	2	0	3	1	0	0	3	0	1	1	0	0	4	0	2	0	0	1	2	0	0	0	1	3	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00177743	251 kDa protein	S 1043	99% (22.45)	0.9903	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00171273	Isoform A of Myotubularin-related protein 3	S 647	99% (26.11)	0.9903	6	6	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00171274	Isoform C of Myotubularin-related protein 3	S 647	99% (26.11)	0.9903	6	6	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00185018	Isoform B of Myotubularin-related protein 3	S 647	99% (26.11)	0.9903	6	6	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00016580	Isoform 1 of Protein C20orf172	S 28	99% (20.08)	0.9902	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641008	OTTHUMP00000030876	S 28	99% (20.08)	0.9902	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00644809	C20orf172 protein	S 12	99% (20.08)	0.9902	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00645304	OTTHUMP00000030877	S 12	99% (20.08)	0.9902	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00457284	hypothetical protein LOC23131	S 474	99% (19.69)	0.9902	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00025330	Isoform 2 of Cyclin-L1	S 168	99% (20.08)	0.9902	2	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00064212	KIAA1802 protein (Fragment)	S 414	99% (20.08)	0.9902	8	10	1	1	1	0	0	0	1	1	1	0	0	0	0	1	1	0	0	0	1	1	1	0	0	0	1	2	0	0	0	0	1	2	1	0	0	0
IPI00414497	Chromosome 13 open reading frame 8	S 405	99% (20.08)	0.9902	8	10	1	1	1	0	0	0	1	1	1	0	0	0	0	1	1	0	0	0	1	1	1	0	0	0	1	2	0	0	0	0	1	2	1	0	0	0
IPI00419433	Isoform 1 of Rab11 family-interacting protein 1	S 156	99% (20.08)	0.9902	3	3	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
IPI00646782	Hypothetical protein FAM73B	S 203	99% (20.08)	0.9902	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00654682	Isoform 1 of Cyclin-L1	S 374	99% (20.08)	0.9902	2	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00654740	Isoform 3 of Cyclin-L1	S 147	99% (20.08)	0.9902	2	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00184330	DNA replication licensing factor MCM2	S 40	99% (20.00)	0.9902	1	4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1
IPI00302594	hypothetical protein LOC91748	S 996	99% (23.04)	0.9901	3	4	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0
IPI00470901	215 kDa protein	S 1789	99% (24.20)	0.9901	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746684	dedicator of cytokinesis 5	S 1789	99% (24.20)	0.9901	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 2692	99% (20.00)	0.9901	3	3	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00328306	Zinc finger CCCH-type domain-containing protein 11A	S 171	99% (26.02)	0.9901	5	5	1	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00100453	DENN domain containing protein	S 389	99% (22.99)	0.9900	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00221325	Ran-binding protein 2	S 2454	99% (22.99)	0.9900	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00746398	hypothetical protein LOC55667	S 505	99% (22.99)	0.9900	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00026497	Isoform 1 of Poly [ADP-ribose] polymerase 2	S 34	99% (20.00)	0.9900	3	4	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
IPI00220995	Isoform 2 of Poly [ADP-ribose] polymerase 2	S 34	99% (20.00)	0.9900	3	4	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
IPI00018098	Novel protein	S 290	99% (20.00)	0.9900	2	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00179964	Isoform 1 of Polypyrimidine tract-binding protein 1	S 141	99% (20.00)	0.9900	12	15	1	0	2	1	1	0	1	1	1	1	1	0	1	0	0	1	0	0	1	0	2	1	1	0	1	1	1	1	1	0	1	1	1	1	1	0
IPI00183626	polypyrimidine tract-binding protein 1 isoform a	S 141	99% (20.00)	0.9900	12	15	1	0	2	1	1	0	1	1	1	1	1	0	1	0	0	1	0	0	1	0	2	1	1	0	1	1	1	1	1	0	1	1	1	1	1	0
IPI00184330	DNA replication licensing factor MCM2	S 27	99% (20.00)	0.9900	11	11	1	2	1	0	1	0	0	0	0	1	1	0	1	1	0	1	1	0	1	2	1	1	0	0	1	0	0	1	1	0	1	0	0	1	1	0
IPI00334175	Isoform 2 of Polypyrimidine tract-binding protein 1	S 141	99% (20.00)	0.9900	12	15	1	0	2	1	1	0	1	1	1	1	1	0	1	0	0	1	0	0	1	0	2	1	1	0	1	1	1	1	1	0	1	1	1	1	1	0
IPI00396634	OTTHUMP00000028561	S 128	99% (20.00)	0.9900	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00646374	Novel protein	S 179	99% (20.00)	0.9900	2	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00552897	Isoform 1 of Mediator of DNA damage checkpoint protein 1	S 299	99% (20.00)	0.9900	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641106	227 kDa protein	S 299	99% (20.00)	0.9900	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00100453	DENN domain containing protein	S 616	99% (25.98)	0.9900	4	4	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0
IPI00746398	hypothetical protein LOC55667	S 732	99% (25.98)	0.9900	4	4	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0
IPI00001735	nuclear receptor co-repressor 2	S 2064	99% (28.13)	0.9900	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00254338	LOC162427 protein	S 320	99% (32.22)	0.9899	4	8	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	2	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1387	99% (26.64)	0.9899	7	1	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 436	99% (19.86)	0.9897	13	13	1	2	0	0	0	0	2	3	0	0	0	0	3	2	0	0	0	0	5	1	0	0	0	0	3	1	0	0	0	0	3	0	0	0	0	0
IPI00304589	182 kDa tankyrase 1-binding protein	S 1029	99% (19.86)	0.9897	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	3	1	0	0	0	0
IPI00302592	Filamin A, alpha	S 2319	99% (19.86)	0.9897	7	9	2	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	3	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0
IPI00333541	Filamin-A	S 2326	99% (19.86)	0.9897	7	9	2	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	3	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0
IPI00023339	CREB-binding protein	S 2063	99% (19.84)	0.9896	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00166680	Isoform 3 of Misshapen-like kinase 1	S 701	99% (19.84)	0.9896	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00396279	CLIP-associating protein 1	S 600	99% (19.84)	0.9896	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00619932	CREBBP variant protein (Fragment)	S 2093	99% (19.84)	0.9896	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00645145	CLASP1 protein	S 600	99% (19.84)	0.9896	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00221325	Ran-binding protein 2	S 955	99% (19.83)	0.9896	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00010088	Histone deacetylase 4	S 467	99% (9.89)	0.9896	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00032342	Thyroid receptor-interacting protein 12	S 319	99% (14.16)	0.9894	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00645814	KIAA1187 protein	S 515	99% (20.87)	0.9894	13	12	2	1	0	0	0	0	3	2	0	0	0	0	3	2	0	0	0	0	1	4	0	0	0	0	0	3	0	0	0	0	2	2	0	0	0	0
IPI00654605	Hypothetical protein RPRC1	S 552	99% (20.87)	0.9894	13	12	2	1	0	0	0	0	3	2	0	0	0	0	3	2	0	0	0	0	1	4	0	0	0	0	0	3	0	0	0	0	2	2	0	0	0	0
IPI00103867	Isoform 1 of Rififylin	S 229	99% (22.69)	0.9893	6	4	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0
IPI00651650	Isoform 2 of Rififylin	S 229	99% (22.69)	0.9893	6	4	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0
IPI00021363	Jumonji/ARID domain-containing protein 1A	S 1329	99% (24.44)	0.9893	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00166555	Chromosome 13 open reading frame 10	S 617	99% (24.44)	0.9893	2	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00329545	Chromosome 13 open reading frame 10	S 617	99% (24.44)	0.9893	2	2	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00396387	guanine nucleotide binding protein-like 1	S 51	99% (24.44)	0.9893	20	25	1	2	5	0	0	0	0	2	4	1	0	0	1	1	3	0	0	0	0	4	4	0	0	0	0	3	3	0	1	0	0	3	5	0	0	2
IPI00470483	WD repeat domain 62	S 49	99% (24.44)	0.9893	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00619935	JARID1A variant protein (Fragment)	S 1370	99% (24.44)	0.9893	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00045360	Protein capicua homolog	S 173	99% (19.68)	0.9892	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00411635	KIAA0802 protein	S 1570	99% (21.99)	0.9892	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00152692	Probable D-tyrosyl-tRNA(Tyr) deacylase	S 197	99% (23.44)	0.9891	7	5	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00017450	Transcription initiation factor IIF alpha subunit	S 385	99% (28.13)	0.9891	3	5	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0
IPI00025333	Isoform 3 of Anamorsin	S 254	99% (13.08)	0.9891	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00387130	Isoform 1 of Anamorsin	S 267	99% (13.08)	0.9891	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00216540	Isoform 4 of Protein kinase C-binding protein 1	S 68	99% (26.57)	0.9891	11	8	2	1	1	0	0	0	1	1	1	0	0	0	2	1	1	0	0	0	2	0	1	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0
IPI00418316	RACK7 isoform e	S 464	99% (26.57)	0.9891	11	8	2	1	1	0	0	0	1	1	1	0	0	0	2	1	1	0	0	0	2	0	1	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0
IPI00640598	protein kinase C binding protein 1 isoform a	S 464	99% (26.57)	0.9891	11	8	2	1	1	0	0	0	1	1	1	0	0	0	2	1	1	0	0	0	2	0	1	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0
IPI00718938	Isoform 6 of Protein kinase C-binding protein 1	S 299	99% (26.57)	0.9891	11	8	2	1	1	0	0	0	1	1	1	0	0	0	2	1	1	0	0	0	2	0	1	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0
IPI00719682	Isoform 7 of Protein kinase C-binding protein 1	S 463	99% (26.57)	0.9891	11	8	2	1	1	0	0	0	1	1	1	0	0	0	2	1	1	0	0	0	2	0	1	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0
IPI00740207	RACK7 isoform j	S 439	99% (26.57)	0.9891	11	8	2	1	1	0	0	0	1	1	1	0	0	0	2	1	1	0	0	0	2	0	1	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0
IPI00741204	RACK7 isoform f	S 439	99% (26.57)	0.9891	11	8	2	1	1	0	0	0	1	1	1	0	0	0	2	1	1	0	0	0	2	0	1	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0
IPI00748579	RACK7 isoform d	S 439	99% (26.57)	0.9891	11	8	2	1	1	0	0	0	1	1	1	0	0	0	2	1	1	0	0	0	2	0	1	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0
IPI00011857	Chromatin assembly factor 1 subunit B	S 458	99% (24.34)	0.9891	2	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0
IPI00103483	Negative elongation factor B	S 557	99% (19.58)	0.9890	8	10	0	0	2	0	0	0	0	0	2	0	0	0	0	1	2	1	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0	1	2	0	0	0
IPI00170865	Membrane-associated guanylate kinase-related 3	S 1257	99% (11.10)	0.9890	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00419433	Isoform 1 of Rab11 family-interacting protein 1	S 345	99% (24.60)	0.9890	4	3	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00295502	PREDICTED: widely-interspaced zinc finger motifs isoform 1	S 924	99% (19.56)	0.9889	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00396378	Isoform B1 of Heterogeneous nuclear ribonucleoproteins A2/B1	S 85	99% (22.49)	0.9888	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00645814	KIAA1187 protein	S 423	99% (24.24)	0.9888	5	6	1	0	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00654605	Hypothetical protein RPRC1	S 460	99% (24.24)	0.9888	5	6	1	0	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00294840	Absent in melanoma 1 protein	S 81	99% (22.45)	0.9888	3	9	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0
IPI00170865	Membrane-associated guanylate kinase-related 3	S 1255	99% (11.01)	0.9887	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00021595	Glucocorticoid induced transcript 1	S 345	99% (22.45)	0.9887	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00337426	Isoform 1 of BMP-2-inducible protein kinase	S 949	99% (22.45)	0.9887	1	9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0
IPI00385511	Isoform 1 of Trinucleotide repeat-containing 6B protein	S 915	99% (22.45)	0.9887	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00744767	SAMD4A protein	S 580	99% (22.45)	0.9887	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00216219	Isoform Long of Tight junction protein ZO-1	S 300	99% (19.35)	0.9886	8	9	2	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0	0
IPI00215963	hypothetical protein LOC23199	S 1101	99% (9.70)	0.9886	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00477936	KIAA0182 protein	S 997	99% (9.70)	0.9886	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010700	Isoform 1 of Large proline-rich protein BAT2	S 1120	99% (26.38)	0.9886	2	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00084746	229 kDa protein	S 1120	99% (26.38)	0.9886	2	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00376933	HLA-B associated transcript-2 isoform b	S 1108	99% (26.38)	0.9886	2	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00742934	HLA-B associated transcript-2 isoform a	S 1120	99% (26.38)	0.9886	2	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00012462	CDA02	S 530	99% (24.15)	0.9886	10	11	1	1	1	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	1	1	0	0	0	0	1	1	1	0	1	1	1	1	0	0	1	0
IPI00292376	GEM-interacting protein	S 234	99% (24.15)	0.9886	5	3	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00306825	Isoform 1 of Tumor protein D54	S 3	99% (24.13)	0.9885	2	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00399265	tumor protein D52-like 2 isoform a	S 3	99% (24.13)	0.9885	2	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00399267	tumor protein D52-like 2 isoform c	S 3	99% (24.13)	0.9885	2	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00056504	Ubiquitin-conjugating enzyme E2 E3	S 8	99% (27.12)	0.9885	3	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00398992	Isoform 1 of Chromodomain-helicase-DNA-binding protein 8	S 1729	99% (27.12)	0.9885	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00719073	Isoform 2 of Chromodomain-helicase-DNA-binding protein 8	S 1873	99% (27.12)	0.9885	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00306265	A kinase anchor protein 10, mitochondrial precursor	S 281	99% (19.37)	0.9884	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00220594	Isoform 4 of Intersectin-1	S 904	99% (26.31)	0.9884	6	7	0	2	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0
IPI00304740	Isoform 1 of Intersectin-1	S 904	99% (26.31)	0.9884	6	7	0	2	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0
IPI00001632	hypothetical protein LOC57648	S 404	99% (26.31)	0.9884	14	14	1	2	0	1	1	1	1	1	0	1	1	0	1	1	0	1	1	0	1	1	1	1	1	0	1	1	0	0	1	1	1	1	0	1	1	1
IPI00292537	nuclear factor kappa-B, subunit 1	S 938	99% (26.31)	0.9884	2	2	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00645725	108 kDa protein	S 415	99% (26.31)	0.9884	14	14	1	2	0	1	1	1	1	1	0	1	1	0	1	1	0	1	1	0	1	1	1	1	1	0	1	1	0	0	1	1	1	1	0	1	1	1
IPI00296432	Isoform 1 of IWS1-like protein	S 422	99% (26.08)	0.9884	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00329635	Isoform 1 of Folliculin	S 73	99% (30.03)	0.9883	2	3	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00256861	Isoform 2 of Microtubule-actin crosslinking factor 1, isoforms 1/2/3/5	S 1853	99% (19.16)	0.9883	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00432363	Microtubule-actin crosslinking factor 1, isoform 4	S 2355	99% (19.16)	0.9883	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00478739	microfilament and actin filament cross-linker protein isoform b	S 2355	99% (19.16)	0.9883	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00513991	620 kDa protein	S 1853	99% (19.16)	0.9883	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514468	670 kDa protein	S 2355	99% (19.16)	0.9883	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00550385	Isoform 1 of Microtubule-actin crosslinking factor 1, isoforms 1/2/3/5	S 1818	99% (19.16)	0.9883	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005011	Isoform 1 of CCR4-NOT transcription complex subunit 2	S 165	99% (25.28)	0.9883	3	2	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00017733	Isoform 5 of CCR4-NOT transcription complex subunit 2	S 165	99% (25.28)	0.9883	3	2	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00170594	transcription factor ELYS	S 1231	99% (25.28)	0.9883	6	6	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00217957	ELYS transcription factor-like protein TMBS62	S 1257	99% (25.28)	0.9883	6	6	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00410623	Isoform 4 of CCR4-NOT transcription complex subunit 2	S 165	99% (25.28)	0.9883	3	2	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00045511	Mid-1-related chloride channel 1	S 524	99% (23.48)	0.9882	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00103756	Mid-1-related chloride channel 4	S 339	99% (23.48)	0.9882	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00103757	Mid-1-related chloride channel 3	S 403	99% (23.48)	0.9882	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00396547	Mid-1-related chloride channel 1	S 474	99% (23.48)	0.9882	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00013933	Isoform DPI of Desmoplakin	S 2825	99% (24.00)	0.9882	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00394829	hypothetical protein LOC286077	S 9	99% (22.01)	0.9880	6	3	1	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00029822	SMARCA4 isoform 2	S 1607	99% (19.08)	0.9880	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00293426	Probable global transcription activator SNF2L4	S 1575	99% (19.08)	0.9880	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010746	Phosphatidylserine synthase 1	S 439	99% (22.00)	0.9880	9	5	3	1	1	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00554715	fragile X mental retardation-related protein 1 isoform b	S 420	99% (19.20)	0.9880	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00386211	family with sequence similarity 44, member A	S 2780	99% (19.17)	0.9879	9	8	2	0	0	0	0	0	3	0	0	0	0	0	2	2	0	0	0	0	2	1	0	0	0	0	1	2	0	0	0	0	2	0	0	0	0	0
IPI00003419	Small acidic protein	S 17	99% (22.01)	0.9875	31	35	0	1	1	1	6	3	0	0	1	2	5	1	0	1	0	1	5	3	0	0	1	3	6	3	0	0	1	4	6	0	0	1	1	3	5	1
IPI00009866	Isoform 1 of Keratin, type I cytoskeletal 13	S 427	99% (22.01)	0.9875	16	12	1	1	1	1	0	0	1	1	2	1	0	0	1	1	2	3	0	0	1	1	2	1	0	0	1	1	1	1	0	0	1	0	1	1	0	0
IPI00103867	Isoform 1 of Rififylin	S 240	99% (22.01)	0.9875	4	2	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00289608	Isoform 2 of AP-3 complex subunit delta-1	S 740	99% (22.01)	0.9875	6	9	2	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	2	2	0	0	0	0	2	0	0	0	0	0
IPI00651650	Isoform 2 of Rififylin	S 240	99% (22.01)	0.9875	4	2	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00719680	Isoform 5 of AP-3 complex subunit delta-1	S 829	99% (22.01)	0.9875	6	9	2	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	2	2	0	0	0	0	2	0	0	0	0	0
IPI00297178	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 16	S 106	99% (21.94)	0.9874	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00552073	Putative pre-mRNA-splicing factor ATP-dependent RNA helicase DHX16	S 106	99% (21.94)	0.9874	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641132	120 kDa protein	S 110	99% (21.94)	0.9874	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00006987	ATP-dependent RNA helicase DDX24	S 94	99% (21.94)	0.9873	7	7	2	0	0	0	0	0	1	0	1	0	1	0	1	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00009326	65 kDa Yes-associated protein	S 109	99% (21.94)	0.9873	11	15	1	1	1	1	0	0	1	1	2	1	0	0	1	0	0	1	0	0	0	2	2	1	0	0	1	2	1	1	0	0	1	1	1	2	0	0
IPI00014843	leucine rich repeat containing 16	S 968	99% (21.94)	0.9873	7	5	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00016405	Hypothetical protein FLJ20455	S 123	99% (21.94)	0.9873	12	8	0	0	0	2	1	0	0	0	1	2	2	0	0	0	0	3	1	0	0	0	0	2	1	0	0	0	1	2	0	0	0	0	0	2	0	0
IPI00032597	RNA-binding motif protein, X-linked 2	S 188	99% (21.94)	0.9873	6	7	0	0	1	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	1	0	1	1	0	0	1	0	0	1	0	0	0	0	1	1	0	0
IPI00216919	YAP1 protein	S 109	99% (21.94)	0.9873	11	15	1	1	1	1	0	0	1	1	2	1	0	0	1	0	0	1	0	0	0	2	2	1	0	0	1	2	1	1	0	0	1	1	1	2	0	0
IPI00298289	Isoform 2 of Reticulon-4	S 181	99% (21.94)	0.9873	0	9	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	2	0	0	1	0	1	1	0	0	0	1	0	0	0	0
IPI00465128	Isoform 1 of Large proline-rich protein BAT3	S 1089	99% (21.94)	0.9873	6	5	1	0	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00513728	HLA-B associated transcript 3	S 1111	99% (21.94)	0.9873	6	5	1	0	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00640922	Isoform 2 of Large proline-rich protein BAT3	S 1075	99% (21.94)	0.9873	6	5	1	0	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00746051	Hypothetical protein FLJ20048	S 187	99% (21.94)	0.9873	7	5	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00292537	nuclear factor kappa-B, subunit 1	S 908	99% (25.87)	0.9872	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00292326	Sperm-associated antigen 1	S 423	99% (12.63)	0.9872	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00159322	Isoform 1 of Transcription factor 20	S 538	99% (26.64)	0.9872	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220381	Isoform 2 of Transcription factor 20	S 538	99% (26.64)	0.9872	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00000513	E-cadherin	S 732	99% (9.42)	0.9871	2	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00025861	Epithelial-cadherin precursor	S 793	99% (9.42)	0.9871	2	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00744889	E-cadherin	S 814	99% (9.42)	0.9871	2	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00376976	Isoform 1 of 130-kDa phosphatidylinositol 4,5-biphosphate-dependent ARF1 GTPase- activating protein	S 1030	99% (18.86)	0.9870	2	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00410303	development and differentiation enhancing factor 1	S 1027	99% (18.86)	0.9870	2	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00026256	Filaggrin	S 1615	99% (20.41)	0.9870	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00028059	Isoform 1 of Protein numb homolog	S 438	99% (18.77)	0.9867	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00180634	Isoform 2 of Protein numb homolog	S 390	99% (18.77)	0.9867	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00180920	Isoform 4 of Protein numb homolog	S 379	99% (18.77)	0.9867	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00216241	Isoform 3 of Protein numb homolog	S 427	99% (18.77)	0.9867	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00006103	CD2 antigen cytoplasmic tail-binding protein 2	S 194	99% (9.34)	0.9866	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00009326	65 kDa Yes-associated protein	S 164	99% (9.34)	0.9866	9	7	1	1	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0
IPI00019848	Isoform 1 of Host cell factor	S 2020	99% (9.34)	0.9866	2	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00031812	Nuclease sensitive element-binding protein 1	S 313	99% (9.34)	0.9866	7	9	0	0	1	1	1	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1	0
IPI00216919	YAP1 protein	S 164	99% (9.34)	0.9866	9	7	1	1	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0
IPI00219326	Isoform 2 of Host cell factor	S 1951	99% (9.34)	0.9866	2	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219726	Isoform 2AC of Catenin delta-1	S 214	99% (9.34)	0.9866	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219728	Isoform 2A of Catenin delta-1	S 214	99% (9.34)	0.9866	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00375358	Isoform 1 of Replication factor C subunit 1	S 311	99% (9.34)	0.9866	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00375359	Isoform 2 of Replication factor C subunit 1	S 311	99% (9.34)	0.9866	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00410590	Isoform 2 of Protein FAM61A	S 183	99% (9.34)	0.9866	14	15	1	1	0	1	1	0	2	1	0	1	1	0	1	0	2	2	0	0	1	2	2	1	1	0	0	1	0	0	0	0	2	2	2	1	0	0
IPI00470779	Alpha-taxilin	S 514	99% (9.34)	0.9866	3	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00478300	Isoform 1 of Protein FAM61A	S 183	99% (9.34)	0.9866	14	15	1	1	0	1	1	0	2	1	0	1	1	0	1	0	2	2	0	0	1	2	2	1	1	0	0	1	0	0	0	0	2	2	2	1	0	0
IPI00413659	Isoform 2 of Alkylated repair protein alkB homolog 5	S 64	99% (18.68)	0.9866	6	5	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	1	0	0	0
IPI00759562	Isoform 1 of Alkylated repair protein alkB homolog 5	S 64	99% (18.68)	0.9866	6	5	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	1	0	0	0
IPI00219301	Myristoylated alanine-rich C-kinase substrate	S 117	99% (26.31)	0.9862	3	12	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	2	0	0	0	0	1	3	0	0	0	0	1	3	0	0	0
IPI00009771	Lamin-B2	S 424	99% (26.31)	0.9862	3	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00017297	Matrin-3	S 598	99% (23.30)	0.9862	14	13	0	3	2	0	0	0	0	2	2	0	0	0	2	3	0	0	0	0	2	3	2	0	0	0	1	0	2	0	0	0	1	1	1	0	0	0
IPI00333010	SR-related CTD associated factor 6	S 817	99% (29.85)	0.9860	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00642935	Calcium homeostasis endoplasmic reticulum protein	S 785	99% (29.85)	0.9860	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1382	99% (22.01)	0.9860	8	3	3	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
IPI00160348	claspin	S 1156	99% (21.51)	0.9860	2	3	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00185919	Isoform 1 of La-related protein 1	S 143	99% (21.51)	0.9860	11	12	0	3	0	0	0	0	1	1	1	0	0	0	2	3	0	0	0	0	1	2	0	0	0	0	2	2	1	0	0	0	2	2	0	0	0	0
IPI00744511	CLSPN protein	S 1092	99% (21.51)	0.9860	2	3	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00748041	Claspin homolog	S 1158	99% (21.51)	0.9860	2	3	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00335437	CDNA FLJ13144 fis, clone NT2RP3003278	S 533	99% (21.51)	0.9860	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1462	99% (18.41)	0.9858	1	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00171176	Isoform 1 of Pantothenate kinase 2, mitochondrial precursor	S 189	99% (24.44)	0.9858	4	6	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	1	1	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00556350	pantothenate kinase 2 isoform 1 preproprotein	S 189	99% (24.44)	0.9858	4	6	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0
IPI00744767	SAMD4A protein	S 420	99% (24.44)	0.9858	5	3	0	0	1	1	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
IPI00221106	splicing factor 3B subunit 2	S 307	99% (25.28)	0.9858	8	9	2	2	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	0	2	3	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00396057	Isoform C of Protein C9orf10	S 510	99% (16.66)	0.9857	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00743942	Similar to C90rf10-like protein	S 509	99% (16.66)	0.9857	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00217418	Isoform 2 of Rho-GTPase-activating protein 12	S 240	99% (16.66)	0.9857	5	5	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0
IPI00328279	Isoform 1 of Rho-GTPase-activating protein 12	S 240	99% (16.66)	0.9857	5	5	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0
IPI00410501	ARHGAP12 protein	S 240	99% (16.66)	0.9857	5	5	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0
IPI00024650	Monocarboxylate transporter 1	S 467	99% (18.42)	0.9856	17	16	3	2	0	0	0	0	4	3	0	0	0	0	3	2	0	0	0	0	3	2	1	0	0	0	3	2	0	0	0	0	2	2	1	0	0	0
IPI00083708	HBxAg transactivated protein 2	S 1251	99% (18.42)	0.9856	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00166680	Isoform 3 of Misshapen-like kinase 1	S 778	99% (18.42)	0.9856	4	6	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	1	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00239406	Isoform 2 of Nesprin-2	S 6467	99% (18.42)	0.9856	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00739117	HBxAg transactivated protein 2	S 1249	99% (18.42)	0.9856	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1857	99% (18.42)	0.9856	6	3	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00295502	PREDICTED: widely-interspaced zinc finger motifs isoform 1	S 930	99% (18.41)	0.9856	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
IPI00010746	Phosphatidylserine synthase 1	S 11	99% (18.41)	0.9856	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0
IPI00168698	PDZ domain-containing protein 8	S 521	99% (18.41)	0.9856	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00303343	Serine arginine-rich pre-mRNA splicing factor SR-A1	S 965	99% (18.41)	0.9856	4	3	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00376404	fetal Alzheimer antigen isoform 2	S 763	99% (18.41)	0.9856	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00012462	CDA02	S 309	99% (11.36)	0.9855	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
IPI00375358	Isoform 1 of Replication factor C subunit 1	S 71	99% (28.30)	0.9855	4	3	1	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00375359	Isoform 2 of Replication factor C subunit 1	S 71	99% (28.30)	0.9855	4	3	1	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00009544	RalA-binding protein 1	S 646	99% (9.16)	0.9855	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00306406	Serine/threonine-protein kinase RIO2	S 337	99% (12.35)	0.9855	1	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00031241	golgi reassembly stacking protein 2	S 451	99% (24.32)	0.9854	12	11	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	1	1	0	0	0	0	2	3	0	0	0	0	2	2	0	0
IPI00743931	Isoform 1 of Golgi reassembly stacking protein 2	S 450	99% (24.32)	0.9854	12	11	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	1	1	0	0	0	0	2	3	0	0	0	0	2	2	0	0
IPI00644591	hypothetical protein LOC64423 isoform 2	S 650	99% (17.26)	0.9854	3	3	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00419322	hepatoma-derived growth factor-related protein 2 isoform 1	S 137	99% (21.26)	0.9852	2	3	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00645387	hepatoma-derived growth factor-related protein 2 isoform 2	S 137	99% (21.26)	0.9852	2	3	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00411356	Vacuolar sorting protein 4a	S 95	99% (20.41)	0.9852	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00020524	Putative chloride channel protein 7	S 61	99% (9.11)	0.9851	6	5	2	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0
IPI00029734	Isoform 4 of M-phase inducer phosphatase 2	S 374	99% (9.11)	0.9851	4	2	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00033907	Anaphase-promoting complex subunit 1	S 688	99% (9.11)	0.9851	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00216511	Isoform 1 of M-phase inducer phosphatase 2	S 339	99% (9.11)	0.9851	4	2	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
IPI00291990	Isoform 3 of M-phase inducer phosphatase 2	S 353	99% (9.11)	0.9851	4	2	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00291992	Isoform 2 of M-phase inducer phosphatase 2	S 312	99% (9.11)	0.9851	4	2	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00414302	OTTHUMP00000030136	S 241	99% (9.11)	0.9851	4	2	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00464952	Splicing factor arginine/serine-rich 11	S 449	99% (9.11)	0.9851	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641287	Splicing factor p54	S 448	99% (9.11)	0.9851	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641842	Splicing factor, arginine¥/serine-rich 11	S 389	99% (9.11)	0.9851	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00745767	Chloride channel protein 7	S 61	99% (9.11)	0.9851	6	5	2	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0
IPI00101942	Calmin	S 526	99% (22.99)	0.9851	5	3	0	1	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
IPI00216219	Isoform Long of Tight junction protein ZO-1	S 277	99% (22.99)	0.9851	12	8	4	1	0	0	0	0	2	2	0	0	0	0	1	2	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0
IPI00386898	CDNA FLJ12346 fis, clone MAMMA1002297, highly similar to Homo sapiens Rab6 GTPase activating pro	S 42	99% (22.99)	0.9851	2	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00028357	Exportin-4	S 464	98% (18.20)	0.9849	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00171798	Metastasis-associated protein MTA2	S 435	98% (25.11)	0.9848	6	6	0	1	1	1	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	1	1	1	0	0	0
IPI00604517	74 kDa protein	S 34	98% (16.40)	0.9848	8	12	0	2	0	0	0	0	0	2	0	0	0	0	0	4	0	0	0	0	0	3	0	0	0	0	0	5	0	0	0	0	0	4	0	0	0	0
IPI00182757	Isoform 1 of Protein KIAA1967	S 683	98% (20.93)	0.9846	10	6	1	3	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
IPI00023466	Protein AF-17	S 220	98% (21.05)	0.9844	3	3	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00759835	112 kDa protein	S 220	98% (21.05)	0.9844	3	3	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0
IPI00102918	Isoform 2 of ATR-interacting protein	S 518	98% (21.00)	0.9843	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00103517	Isoform 1 of ATR-interacting protein	S 518	98% (21.00)	0.9843	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413576	Isoform 3 of ATR-interacting protein	S 425	98% (21.00)	0.9843	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413577	Isoform 4 of ATR-interacting protein	S 518	98% (21.00)	0.9843	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00384541	Novel protein	S 593	98% (27.96)	0.9842	6	4	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00639879	Novel protein	S 567	98% (27.96)	0.9842	6	4	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00384689	Hypothetical protein KIAA0251	S 757	98% (26.38)	0.9842	2	4	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00298696	Treacle protein	S 156	98% (18.00)	0.9842	15	8	2	2	1	0	0	0	2	1	2	0	0	0	1	2	2	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0
IPI00747047	Treacle major isoform	S 156	98% (18.00)	0.9842	15	8	2	2	1	0	0	0	2	1	2	0	0	0	1	2	2	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0
IPI00396279	CLIP-associating protein 1	S 1091	98% (24.87)	0.9840	4	5	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00645145	CLASP1 protein	S 1063	98% (24.87)	0.9840	4	5	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00479404	vacuolar protein sorting 13D isoform 1	S 1732	98% (17.91)	0.9838	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514073	vacuolar protein sorting 13D isoform 2	S 1732	98% (17.91)	0.9838	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00159322	Isoform 1 of Transcription factor 20	S 640	98% (17.91)	0.9838	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220381	Isoform 2 of Transcription factor 20	S 640	98% (17.91)	0.9838	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00143753	PREDICTED: U2-associated SR140 protein	S 541	98% (20.82)	0.9836	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00419322	hepatoma-derived growth factor-related protein 2 isoform 1	S 395	98% (11.10)	0.9836	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00645387	hepatoma-derived growth factor-related protein 2 isoform 2	S 395	98% (11.10)	0.9836	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00737871	PREDICTED: similar to angiomotin	S 276	98% (8.87)	0.9834	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00253281	Isoform 2 of Epidermal growth factor receptor kinase substrate 8-like protein 1	S 504	98% (17.80)	0.9834	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00301250	Isoform 1 of Epidermal growth factor receptor kinase substrate 8-like protein 1	S 631	98% (17.80)	0.9834	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00237884	Isoform 1 of A-kinase anchor protein 12	S 644	98% (24.44)	0.9832	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00387144	Tubulin alpha-ubiquitous chain	S 48	98% (22.45)	0.9832	3	6	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0
IPI00456359	Isoform 1 of Ataxin-2-like protein	S 594	98% (22.45)	0.9832	18	18	3	2	0	0	0	0	3	2	1	0	0	0	3	3	1	0	0	0	3	1	1	0	0	0	3	3	1	0	0	0	2	3	1	0	0	0
IPI00456361	Isoform 2 of Ataxin-2-like protein	S 594	98% (22.45)	0.9832	18	18	3	2	0	0	0	0	3	2	1	0	0	0	3	3	1	0	0	0	3	1	1	0	0	0	3	3	1	0	0	0	2	3	1	0	0	0
IPI00456363	Isoform 3 of Ataxin-2-like protein	S 594	98% (22.45)	0.9832	18	18	3	2	0	0	0	0	3	2	1	0	0	0	3	3	1	0	0	0	3	1	1	0	0	0	3	3	1	0	0	0	2	3	1	0	0	0
IPI00456365	Isoform 4 of Ataxin-2-like protein	S 594	98% (22.45)	0.9832	18	18	3	2	0	0	0	0	3	2	1	0	0	0	3	3	1	0	0	0	3	1	1	0	0	0	3	3	1	0	0	0	2	3	1	0	0	0
IPI00456367	Isoform 5 of Ataxin-2-like protein	S 594	98% (22.45)	0.9832	18	18	3	2	0	0	0	0	3	2	1	0	0	0	3	3	1	0	0	0	3	1	1	0	0	0	3	3	1	0	0	0	2	3	1	0	0	0
IPI00456369	Isoform 6 of Ataxin-2-like protein	S 594	98% (22.45)	0.9832	18	18	3	2	0	0	0	0	3	2	1	0	0	0	3	3	1	0	0	0	3	1	1	0	0	0	3	3	1	0	0	0	2	3	1	0	0	0
IPI00165528	Isoform 2 of Ubiquitin carboxyl-terminal hydrolase 47	S 744	98% (20.70)	0.9832	3	6	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0
IPI00607554	Isoform 1 of Ubiquitin carboxyl-terminal hydrolase 47	S 832	98% (20.70)	0.9832	3	6	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0
IPI00219301	Myristoylated alanine-rich C-kinase substrate	S 146	98% (20.70)	0.9832	10	8	1	1	1	1	0	0	0	0	1	0	0	0	1	1	2	1	0	0	0	2	2	0	0	0	0	0	0	2	1	0	1	0	0	0	0	0
IPI00748715	septin 9	S 67	98% (17.71)	0.9830	12	4	0	1	2	1	1	0	1	1	1	1	0	1	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
IPI00030466	PREDICTED: hypothetical protein LOC26115 isoform 1	S 1729	98% (25.16)	0.9829	2	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00645814	KIAA1187 protein	S 507	98% (22.36)	0.9829	19	15	3	1	0	0	0	0	4	4	0	0	0	0	4	3	0	0	0	0	1	4	0	0	0	0	0	4	0	0	0	0	4	2	0	0	0	0
IPI00654605	Hypothetical protein RPRC1	S 544	98% (22.36)	0.9829	19	15	3	1	0	0	0	0	4	4	0	0	0	0	4	3	0	0	0	0	1	4	0	0	0	0	0	4	0	0	0	0	4	2	0	0	0	0
IPI00017450	Transcription initiation factor IIF alpha subunit	S 305	98% (11.86)	0.9827	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
IPI00045360	Protein capicua homolog	S 1382	98% (20.41)	0.9826	2	3	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005578	EH-domain-containing protein 4	S 459	98% (20.41)	0.9821	1	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00306087	WDR79 protein	S 491	98% (20.41)	0.9821	2	5	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 2690	98% (20.41)	0.9821	2	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00000634	Coiled-coil domain-containing protein 6	S 323	98% (20.41)	0.9821	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00008868	Microtubule-associated protein 1B	S 1378	98% (20.41)	0.9821	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	S 3525	98% (20.41)	0.9821	6	7	2	0	0	0	0	0	2	1	1	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	1	0	1	0	0	0	1	1	0	0	0	0
IPI00009917	Isoform 3 of LAS1-like protein	S 553	98% (20.41)	0.9821	2	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00018274	Isoform 1 of Epidermal growth factor receptor precursor	S 991	98% (20.41)	0.9821	3	6	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00021290	ATP-citrate synthase	S 455	98% (20.41)	0.9821	4	5	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0
IPI00186536	Isoform B of Mitogen-activated protein kinase kinase kinase 4	S 1202	98% (20.41)	0.9821	2	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00260388	PHD finger protein 2	S 905	98% (20.41)	0.9821	11	8	1	0	1	1	0	0	2	1	1	1	0	0	2	0	0	1	0	0	2	2	1	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00294742	HDCMA18P protein	S 300	98% (20.41)	0.9821	1	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00299824	Isoform 1 of Connector enhancer of kinase suppressor of ras 1	S 305	98% (20.41)	0.9821	6	3	0	2	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00374770	microtubule-associated protein 1B isoform 2	S 1252	98% (20.41)	0.9821	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00376493	PHD finger protein 2 isoform b	S 905	98% (20.41)	0.9821	11	8	1	0	1	1	0	0	2	1	1	1	0	0	2	0	0	1	0	0	2	2	1	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00451417	Isoform 2 of Connector enhancer of kinase suppressor of ras 1	S 298	98% (20.41)	0.9821	6	3	0	2	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00477501	121 kDa protein	S 904	98% (20.41)	0.9821	11	8	1	0	1	1	0	0	2	1	1	1	0	0	2	0	0	1	0	0	2	2	1	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00640847	ATP citrate lyase isoform 1	S 455	98% (20.41)	0.9821	4	5	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0
IPI00641990	Isoform 1 of LAS1-like protein	S 612	98% (20.41)	0.9821	2	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00645869	Isoform 2 of LAS1-like protein	S 595	98% (20.41)	0.9821	2	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00419322	hepatoma-derived growth factor-related protein 2 isoform 1	S 399	98% (11.10)	0.9820	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00645387	hepatoma-derived growth factor-related protein 2 isoform 2	S 399	98% (11.10)	0.9820	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00306195	CDNA FLJ30949 fis, clone HCASM1000021, weakly similar to Plasmodium berghei strain NYU2 merozoite	S 108	98% (20.17)	0.9820	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0
IPI00549786	AKT1S1 protein	S 88	98% (20.17)	0.9820	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0
IPI00016580	Isoform 1 of Protein C20orf172	S 30	98% (20.12)	0.9820	3	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0
IPI00641008	OTTHUMP00000030876	S 30	98% (20.12)	0.9820	3	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0
IPI00644809	C20orf172 protein	S 14	98% (20.12)	0.9820	3	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0
IPI00645304	OTTHUMP00000030877	S 14	98% (20.12)	0.9820	3	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0
IPI00025512	Heat-shock protein beta-1	S 65	98% (24.34)	0.9819	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	S 370	98% (20.61)	0.9819	2	4	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00181359	SFRS2-interacting protein	S 293	98% (22.07)	0.9817	3	5	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00375124	Ubiquitin carboxyl-terminal hydrolase 42	S 754	98% (22.07)	0.9817	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746412	129 kDa protein	S 293	98% (22.07)	0.9817	3	5	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00472901	chromodomain helicase DNA binding protein 7	S 2272	98% (17.32)	0.9815	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00002349	FMRP interacting protein, 82kD	S 214	98% (22.01)	0.9815	7	3	0	1	1	0	0	0	1	1	0	0	0	0	1	0	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
IPI00170786	WW domain-binding protein 11	S 353	98% (11.57)	0.9815	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00002135	Transforming acidic coiled-coil-containing protein 3	S 317	98% (22.01)	0.9814	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0
IPI00009505	Isoform 1 of Beta-2-syntrophin	S 393	98% (22.01)	0.9814	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00030531	sarcolemma associated protein	S 435	98% (22.01)	0.9814	2	7	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0
IPI00017184	EH-domain-containing protein 1	S 456	98% (25.67)	0.9814	8	11	0	0	3	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	1	3	0	0	0	0	2	3	0	0	0
IPI00018370	Isoform 2 of Supervillin	S 494	98% (22.01)	0.9814	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00159322	Isoform 1 of Transcription factor 20	S 966	98% (24.20)	0.9813	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00220381	Isoform 2 of Transcription factor 20	S 966	98% (24.20)	0.9813	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00291802	Isoform 3 of LIM domain only protein 7	S 626	98% (25.66)	0.9813	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00003842	Isoform 1 of Microtubule-associated protein 2	S 881	98% (25.66)	0.9813	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00010728	203 kDa protein	S 881	98% (25.66)	0.9813	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00472094	Isoform 3 of Microtubule-associated protein 2	S 877	98% (25.66)	0.9813	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00023466	Protein AF-17	S 222	98% (20.17)	0.9813	5	5	1	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00759835	112 kDa protein	S 222	98% (20.17)	0.9813	5	5	1	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00301421	Isoform 1 of Nuclear-interacting partner of ALK	S 395	98% (21.94)	0.9811	18	21	2	0	3	0	0	0	2	0	3	0	1	0	1	1	3	1	1	0	2	1	4	0	1	0	3	0	2	0	1	0	2	1	3	0	1	0
IPI00339382	Isoform 2 of Nuclear-interacting partner of ALK	S 374	98% (21.94)	0.9811	18	21	2	0	3	0	0	0	2	0	3	0	1	0	1	1	3	1	1	0	2	1	4	0	1	0	3	0	2	0	1	0	2	1	3	0	1	0
IPI00383597	Isoform A of Anion exchange protein 2	S 173	98% (21.94)	0.9811	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00464978	Insulin receptor substrate 2 insertion mutant (Fragment)	S 579	98% (21.94)	0.9811	4	1	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00477139	Isoform B1 of Anion exchange protein 2	S 159	98% (21.94)	0.9811	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00554648	Keratin, type II cytoskeletal 8	S 23	98% (21.94)	0.9811	3	1	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00013107	Isoform 1 of Splicing factor, arginine/serine-rich 16	S 294	98% (20.17)	0.9810	2	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00186008	START domain containing 10	S 352	98% (20.17)	0.9810	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00432061	Isoform 3 of Splicing factor, arginine/serine-rich 16	S 279	98% (20.17)	0.9810	2	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00746279	40 kDa protein	S 351	98% (20.17)	0.9810	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00100453	DENN domain containing protein	S 892	98% (20.17)	0.9810	4	6	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0
IPI00746398	hypothetical protein LOC55667	S 1008	98% (20.17)	0.9810	4	6	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0
IPI00004233	Isoform Long of Antigen KI-67	S 1447	98% (17.01)	0.9809	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00301293	antigen identified by monoclonal antibody Ki-67	S 1447	98% (17.01)	0.9809	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00419322	hepatoma-derived growth factor-related protein 2 isoform 1	S 146	98% (36.05)	0.9809	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00645387	hepatoma-derived growth factor-related protein 2 isoform 2	S 146	98% (36.05)	0.9809	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00064212	KIAA1802 protein (Fragment)	S 295	98% (20.12)	0.9808	7	6	1	2	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0
IPI00218486	Isoform 1 of Protein phosphatase Slingshot homolog 3	S 87	98% (20.12)	0.9808	11	7	1	2	1	0	0	0	1	1	1	0	0	0	0	2	2	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0
IPI00414497	Chromosome 13 open reading frame 8	S 286	98% (20.12)	0.9808	7	6	1	2	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0
IPI00021175	Cell division cycle 2-related protein kinase 7	S 385	98% (21.33)	0.9808	9	11	2	1	0	0	0	0	1	2	0	0	0	0	2	1	0	0	0	0	2	1	1	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0
IPI00337385	Isoform 1 of Pre-mRNA-processing factor 40 homolog A	S 935	98% (20.08)	0.9807	3	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00337386	Isoform 2 of Pre-mRNA-processing factor 40 homolog A	S 893	98% (20.08)	0.9807	3	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00337387	Isoform 3 of Pre-mRNA-processing factor 40 homolog A	S 917	98% (20.08)	0.9807	3	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00397509	Isoform 4 of Pre-mRNA-processing factor 40 homolog A	S 804	98% (20.08)	0.9807	3	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456359	Isoform 1 of Ataxin-2-like protein	S 339	98% (20.08)	0.9806	6	5	0	1	1	0	0	0	0	1	0	0	0	0	1	1	0	1	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00456361	Isoform 2 of Ataxin-2-like protein	S 339	98% (20.08)	0.9806	6	5	0	1	1	0	0	0	0	1	0	0	0	0	1	1	0	1	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00456363	Isoform 3 of Ataxin-2-like protein	S 339	98% (20.08)	0.9806	6	5	0	1	1	0	0	0	0	1	0	0	0	0	1	1	0	1	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00456365	Isoform 4 of Ataxin-2-like protein	S 339	98% (20.08)	0.9806	6	5	0	1	1	0	0	0	0	1	0	0	0	0	1	1	0	1	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00456367	Isoform 5 of Ataxin-2-like protein	S 339	98% (20.08)	0.9806	6	5	0	1	1	0	0	0	0	1	0	0	0	0	1	1	0	1	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00456369	Isoform 6 of Ataxin-2-like protein	S 339	98% (20.08)	0.9806	6	5	0	1	1	0	0	0	0	1	0	0	0	0	1	1	0	1	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00013070	Isoform 1 of Heterogeneous nuclear ribonucleoprotein U-like protein 1	S 512	98% (20.08)	0.9806	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00167147	Isoform 2 of Heterogeneous nuclear ribonucleoprotein U-like protein 1	S 512	98% (20.08)	0.9806	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00444452	Isoform 1 of Putative helicase MOV-10	S 969	98% (25.11)	0.9805	5	3	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00646886	Mov10, Moloney leukemia virus 10, homolog	S 913	98% (25.11)	0.9805	5	3	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00165528	Isoform 2 of Ubiquitin carboxyl-terminal hydrolase 47	S 845	98% (17.08)	0.9804	5	5	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00554648	Keratin, type II cytoskeletal 8	S 476	98% (17.08)	0.9804	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00607554	Isoform 1 of Ubiquitin carboxyl-terminal hydrolase 47	S 933	98% (17.08)	0.9804	5	5	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 2398	98% (17.08)	0.9804	5	4	1	0	0	0	0	0	0	0	0	0	0	0	2	1	1	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0
IPI00005024	Isoform 1 of Myb-binding protein 1A	S 1159	98% (17.01)	0.9804	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00607584	Isoform 2 of Myb-binding protein 1A	S 1159	98% (17.01)	0.9804	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00008274	Adenylyl cyclase-associated protein 1	S 307	98% (20.00)	0.9803	36	38	2	0	5	2	0	0	4	2	5	3	0	0	4	0	4	5	0	0	3	1	4	5	0	1	4	1	3	6	1	0	2	0	3	3	0	1
IPI00013743	Hypothetical protein BUD13	S 358	98% (20.00)	0.9803	3	2	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00030408	M-phase phosphoprotein 8	S 189	98% (20.00)	0.9803	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00184330	DNA replication licensing factor MCM2	S 41	98% (20.00)	0.9803	9	7	0	3	1	0	0	0	0	2	0	0	0	0	1	1	0	0	1	0	1	2	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0
IPI00217851	PHACTR4 protein	S 176	98% (20.00)	0.9803	4	4	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
IPI00432436	PHACTR4 protein	S 160	98% (20.00)	0.9803	4	4	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
IPI00657967	79 kDa protein	S 186	98% (20.00)	0.9803	4	4	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
IPI00419433	Isoform 1 of Rab11 family-interacting protein 1	S 967	98% (20.00)	0.9803	3	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00328342	Isoform 1 of Sodium bicarbonate cotransporter 3	S 84	98% (22.99)	0.9803	2	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00387156	Isoform 2 of Sodium bicarbonate cotransporter 3	S 84	98% (22.99)	0.9803	2	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00002349	FMRP interacting protein, 82kD	S 629	98% (22.99)	0.9803	8	9	0	0	1	0	1	0	0	2	0	0	1	0	0	1	0	0	2	0	0	2	1	1	0	0	0	2	0	0	1	0	0	1	0	0	1	0
IPI00019223	Isoform 1 of A-kinase anchor protein 9	S 165	98% (22.99)	0.9803	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00220624	Isoform 2 of A-kinase anchor protein 9	S 153	98% (22.99)	0.9803	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00220625	Isoform 3 of A-kinase anchor protein 9	S 153	98% (22.99)	0.9803	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00220628	Isoform 6 of A-kinase anchor protein 9	S 165	98% (22.99)	0.9803	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00237884	Isoform 1 of A-kinase anchor protein 12	S 116	98% (16.76)	0.9802	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00019996	modulator of estrogen induced transcription isoform b	S 533	98% (17.01)	0.9801	23	23	5	3	2	0	0	0	3	3	0	0	0	0	3	3	1	0	0	0	5	3	1	0	0	0	4	3	0	0	0	0	3	4	0	0	0	0
IPI00171749	modulator of estrogen induced transcription isoform a	S 551	98% (17.01)	0.9801	23	23	5	3	2	0	0	0	3	3	0	0	0	0	3	3	1	0	0	0	5	3	1	0	0	0	4	3	0	0	0	0	3	4	0	0	0	0
IPI00290032	Transient receptor potential cation channel subfamily M member 7	S 1255	98% (26.64)	0.9801	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00003843	Isoform A1 of Tight junction protein ZO-2	S 170	98% (17.01)	0.9801	6	11	1	1	0	1	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	1	1	1	0	0	1	1	1	1	0	0	1	1	1	1	0	0
IPI00013933	Isoform DPI of Desmoplakin	S 2024	98% (17.01)	0.9801	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR															
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00022827	Isoform 1 of STE20-like serine/threonine-protein kinase	S 571	98% (17.01)	0.9801	3	2	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00028493	Isoform 1 of Tuberin	S 981	98% (17.01)	0.9801	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00071185	Isoform SV1 of PITSLRE serine/threonine-protein kinase CDC2L1	S 270	98% (17.01)	0.9801	2	5	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0
IPI00071188	Isoform SV10 of PITSLRE serine/threonine-protein kinase CDC2L1	S 236	98% (17.01)	0.9801	2	5	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0
IPI00215884	splicing factor, arginine/serine-rich 1	S 199	98% (17.01)	0.9801	9	11	0	0	0	1	1	0	0	0	0	1	1	0	0	0	1	1	3	0	0	0	1	2	2	0	0	0	0	1	1	0	0	0	1	3	0	0
IPI00215999	Isoform SV9 of PITSLRE serine/threonine-protein kinase CDC2L1	S 283	98% (17.01)	0.9801	2	5	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0
IPI00216219	Isoform Long of Tight junction protein ZO-1	S 353	98% (17.01)	0.9801	3	5	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0
IPI00218883	Isoform 4 of Tuberin	S 981	98% (17.01)	0.9801	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00293884	Kinesin-like protein KIF23	S 682	98% (17.01)	0.9801	8	7	1	1	0	1	0	0	1	2	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00027834	heterogeneous nuclear ribonucleoprotein L isoform a	S 298	98% (21.68)	0.9800	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1103	98% (21.68)	0.9800	7	2	2	0	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00013272	Isoform 1 of Golgin subfamily A member 4	S 1373	98% (16.95)	0.9798	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 1114	98% (16.95)	0.9798	25	20	5	2	1	0	0	0	5	2	1	1	0	0	5	1	1	1	0	0	7	1	0	0	0	0	4	2	0	0	0	0	5	1	0	0	0	0
IPI00220521	Isoform 3 of Golgin subfamily A member 4	S 1373	98% (16.95)	0.9798	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220522	Isoform 4 of Golgin subfamily A member 4	S 1373	98% (16.95)	0.9798	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00329694	Isoform 2 of Golgin subfamily A member 4	S 1373	98% (16.95)	0.9798	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 1119	98% (16.95)	0.9798	25	20	5	2	1	0	0	0	5	2	1	1	0	0	5	1	1	1	0	0	7	1	0	0	0	0	4	2	0	0	0	0	5	1	0	0	0	0
IPI00744288	Isoform 5 of C-jun-amino-terminal kinase-interacting protein 4	S 930	98% (11.06)	0.9798	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00419433	Isoform 1 of Rab11 family-interacting protein 1	S 341	98% (21.58)	0.9796	2	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00003964	ubiquitin specific protease 9, X-linked isoform 4	S 2547	98% (19.86)	0.9796	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00221012	ubiquitin specific protease 9, X-linked isoform 3	S 2563	98% (19.86)	0.9796	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00410590	Isoform 2 of Protein FAM61A	S 192	98% (19.86)	0.9796	19	27	0	1	3	2	0	0	2	1	2	1	1	0	2	0	3	0	1	0	0	2	5	5	0	0	1	2	3	1	0	0	1	3	3	0	1	0
IPI00478300	Isoform 1 of Protein FAM61A	S 192	98% (19.86)	0.9796	19	27	0	1	3	2	0	0	2	1	2	1	1	0	2	0	3	0	1	0	0	2	5	5	0	0	1	2	3	1	0	0	1	3	3	0	1	0
IPI00216952	Isoform C of Lamin-A/C	S 407	98% (20.00)	0.9796	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00017030	Isoform 1 of Myosin-18A	S 2046	98% (15.65)	0.9795	3	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00337335	Isoform 1 of Myosin-14	S 1984	98% (9.53)	0.9795	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
IPI00607778	Isoform 4 of Myosin-14	S 1767	98% (9.53)	0.9795	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
IPI00607818	Isoform 2 of Myosin-14	S 2016	98% (9.53)	0.9795	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
IPI00009101	Transcriptional activator SRCAP	S 2845	98% (21.00)	0.9794	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00444046	CDNA FLJ46149 fis, clone TESTI4000621, moderately similar to Homo sapiens Snf2-related CBP activator	S 3050	98% (21.00)	0.9794	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00550342	KIAA0309 protein	S 2892	98% (21.00)	0.9794	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010486	Isoform 1 of Hermansky-Pudlak syndrome 5 protein	S 935	98% (11.12)	0.9794	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005625	136 kDa protein	S 1043	98% (18.42)	0.9793	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00237884	Isoform 1 of A-kinase anchor protein 12	S 380	98% (21.51)	0.9792	6	8	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	3	1	0	0	0	0
IPI00186194	KARP-1-binding protein	S 380	98% (16.76)	0.9789	5	1	0	2	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00010320	Chromobox protein homolog 1	S 89	98% (16.76)	0.9789	3	2	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022215	Activity-dependent neuroprotector	S 736	98% (16.76)	0.9789	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00395444	Calmodulin regulated spectrin-associated protein 1	S 460	98% (16.76)	0.9789	2	2	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00002478	Isoform B of Endothelin-converting enzyme 1	S 750	98% (19.69)	0.9789	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00009771	Lamin-B2	S 541	98% (19.69)	0.9789	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216760	Isoform C of Endothelin-converting enzyme 1	S 734	98% (19.69)	0.9789	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216762	Isoform D of Endothelin-converting enzyme 1	S 747	98% (19.69)	0.9789	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218753	Isoform 3 of DNA topoisomerase 2-alpha	S 1531	98% (16.70)	0.9787	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218754	Isoform 4 of DNA topoisomerase 2-alpha	S 1576	98% (16.70)	0.9787	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00414101	Isoform 2 of DNA topoisomerase 2-alpha	S 1522	98% (16.70)	0.9787	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00478232	Isoform 1 of DNA topoisomerase 2-alpha	S 1532	98% (16.70)	0.9787	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00064212	KIAA1802 protein (Fragment)	S 395	98% (16.65)	0.9784	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00414497	Chromosome 13 open reading frame 8	S 386	98% (16.65)	0.9784	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00337465	Isoform P of Kinesin light chain 1	S 574	98% (16.64)	0.9783	2	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00472303	Isoform N of Kinesin light chain 1	S 618	98% (16.64)	0.9783	2	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00479424	Isoform J of Kinesin light chain 1	S 627	98% (16.64)	0.9783	2	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00008283	Zinc finger protein 106 homolog	S 1328	98% (22.57)	0.9783	3	3	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0
IPI00185027	Isoform 1 of Arginine-glutamic acid dipeptide repeats protein	S 53	98% (22.07)	0.9783	5	3	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0
IPI00216219	Isoform Long of Tight junction protein ZO-1	S 125	98% (17.65)	0.9783	23	24	4	2	2	0	1	0	4	2	0	1	1	0	3	3	0	0	0	0	2	4	0	1	0	0	3	4	1	2	0	0	4	2	1	0	0	0
IPI00009917	Isoform 3 of LAS1-like protein	S 558	98% (19.56)	0.9783	2	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641990	Isoform 1 of LAS1-like protein	S 617	98% (19.56)	0.9783	2	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00645869	Isoform 2 of LAS1-like protein	S 600	98% (19.56)	0.9783	2	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00106847	Isoform GTBP-alt of DNA mismatch repair protein MSH6	S 137	98% (8.26)	0.9782	7	4	1	1	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00291376	Putative RNA methyltransferase NCOA6IP	S 412	98% (16.14)	0.9782	3	1	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00449906	Isoform 1 of Rho guanine nucleotide exchange factor 7	S 226	98% (21.26)	0.9780	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641543	Rho guanine nucleotide exchange factor (GEF) 7	S 226	98% (21.26)	0.9780	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00101942	Calmin	S 402	98% (24.24)	0.9779	4	0	0	0	1	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00464978	Insulin receptor substrate 2 insertion mutant (Fragment)	S 367	98% (8.22)	0.9778	1	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00654555	NOL1 protein	S 820	98% (8.21)	0.9777	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00001364	Isoform A of GC-rich sequence DNA-binding factor homolog	S 558	98% (21.19)	0.9777	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00069267	Isoform B of GC-rich sequence DNA-binding factor homolog	S 558	98% (21.19)	0.9777	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00329291	Isoform 2 of StAR-related lipid transfer protein 13	S 403	98% (22.45)	0.9777	2	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00395688	Isoform 3 of StAR-related lipid transfer protein 13	S 293	98% (22.45)	0.9777	2	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00419226	Isoform 1 of StAR-related lipid transfer protein 13	S 411	98% (22.45)	0.9777	2	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00739795	Isoform 5 of StAR-related lipid transfer protein 13	S 403	98% (22.45)	0.9777	2	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00741772	Isoform 4 of StAR-related lipid transfer protein 13	S 376	98% (22.45)	0.9777	2	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00027172	Isoform Long of Restin	S 499	98% (16.51)	0.9777	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00217113	Isoform Short of Restin	S 464	98% (16.51)	0.9777	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00290652	remodeling and spacing factor 1	S 1277	98% (16.32)	0.9777	5	5	2	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0
IPI00514411	Isoform 2 of Hepatitis B virus X-associated protein	S 1236	98% (16.32)	0.9777	5	5	2	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0
IPI00064212	KIAA1802 protein (Fragment)	S 452	98% (8.26)	0.9776	2	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00414497	Chromosome 13 open reading frame 8	S 443	98% (8.26)	0.9776	2	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00021954	Golgi-specific brefeldin A-resistance guanine nucleotide exchange factor 1	S 1475	98% (24.17)	0.9774	4	2	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00017443	Absent in melanoma 1-like	S 228	98% (8.22)	0.9773	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00069817	Isoform 1 of Bromodomain adjacent to zinc finger domain protein 1B	S 773	98% (18.30)	0.9773	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00216695	Isoform 2 of Bromodomain adjacent to zinc finger domain protein 1B	S 769	98% (18.30)	0.9773	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00377154	bromodomain adjacent to zinc finger domain, 1B	S 773	98% (18.30)	0.9773	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00292059	Nuclear pore complex protein Nup153	S 217	98% (23.30)	0.9772	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00480157	154 kDa protein	S 217	98% (23.30)	0.9772	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514528	nucleoporin 153kDa	S 217	98% (23.30)	0.9772	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00159322	Isoform 1 of Transcription factor 20	S 558	98% (8.14)	0.9770	8	4	2	0	1	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00219018	Glyceraldehyde-3-phosphate dehydrogenase	S 209	98% (8.14)	0.9770	3	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220381	Isoform 2 of Transcription factor 20	S 558	98% (8.14)	0.9770	8	4	2	0	1	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00257508	Dihydropyrimidinase-related protein 2	S 522	98% (8.14)	0.9770	10	8	0	0	2	1	0	0	0	0	2	1	0	0	0	0	4	0	0	0	0	1	0	0	0	0	0	0	2	1	0	0	2	2	0	0	0	0
IPI00045360	Protein capicua homolog	S 436	98% (8.14)	0.9770	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00419933	Pleckstrin homology domain containing, family A member 2	S 903	98% (20.00)	0.9769	1	8	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	1	2	1	0	0	0	0
IPI00012837	Kinesin heavy chain	S 933	98% (19.20)	0.9764	5	4	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
IPI00472558	110 kDa protein	S 933	98% (19.20)	0.9764	5	4	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
IPI00006196	Isoform 2 of Nuclear mitotic apparatus protein 1	S 1755	98% (19.20)	0.9764	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00292771	Isoform 1 of Nuclear mitotic apparatus protein 1	S 1769	98% (19.20)	0.9764	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00216219	Isoform Long of Tight junction protein ZO-1	S 280	98% (18.15)	0.9762	8	7	2	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0
IPI00239406	Isoform 2 of Nesprin-2	S 4136	98% (19.16)	0.9762	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022460	Zinc finger protein 592	S 465	98% (10.54)	0.9761	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00159322	Isoform 1 of Transcription factor 20	S 384	98% (10.54)	0.9761	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220381	Isoform 2 of Transcription factor 20	S 384	98% (10.54)	0.9761	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00176903	Isoform 1 of Polymerase I and transcript release factor	S 167	98% (16.21)	0.9761	4	4	0	0	1	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0
IPI00032342	Thyroid receptor-interacting protein 12	S 100	98% (20.82)	0.9757	7	6	2	0	0	1	0	0	2	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00006079	Isoform 1 of Bcl-2-associated transcription factor 1	S 287	98% (20.81)	0.9757	2	6	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2	0	0	0	0	1	0	0	0	0	1
IPI00413671	Isoform 2 of Bcl-2-associated transcription factor 1	S 285	98% (20.81)	0.9757	2	6	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2	0	0	0	0	1	0	0	0	0	1
IPI00413672	Isoform 3 of Bcl-2-associated transcription factor 1	S 285	98% (20.81)	0.9757	2	6	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2	0	0	0	0	1	0	0	0	0	1
IPI00328929	Conserved nuclear protein NHN1	S 74	98% (19.27)	0.9755	3	2	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00021275	Isoform 1 of Ephrin type-B receptor 2 precursor	S 575	98% (22.99)	0.9755	21	3	1	2	2	2	0	0	2	2	2	2	0	0	1	2	1	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00219421	Isoform 2 of Ephrin type-B receptor 2 precursor	S 575	98% (22.99)	0.9755	21	3	1	2	2	2	0	0	2	2	2	2	0	0	1	2	1	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00252979	Isoform 3 of Ephrin type-B receptor 2 precursor	S 576	98% (22.99)	0.9755	21	3	1	2	2	2	0	0	2	2	2	2	0	0	1	2	1	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00644408	Ephrin receptor	S 570	98% (22.99)	0.9755	21	3	1	2	2	2	0	0	2	2	2	2	0	0	1	2	1	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1648	98% (22.99)	0.9755	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00100197	Isoform 1 of NSFL1 cofactor p47	S 140	98% (19.03)	0.9755	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219754	Isoform 2 of Liprin-alpha-1	S 242	98% (19.03)	0.9755	5	4	1	0	2	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	1	0	0	0	0
IPI00397571	Isoform 3 of NSFL1 cofactor p47	S 142	98% (19.03)	0.9755	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00159652	PREDICTED: hypothetical protein LOC23045 isoform 1	S 1874	98% (22.01)	0.9754	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00335634	Isoform Beta of Paxillin	S 85	98% (22.01)	0.9754	13	15	0	0	2	0	1	0	1	2	1	0	1	0	1	2	1	0	1	0	1	2	1	0	1	0	1	0	2	0	1	0	1	1	2	0	1	1
IPI00739607	PREDICTED: similar to CG32045-PB, isoform B isoform 5	S 1874	98% (22.01)	0.9754	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00005605	Isoform 1 of Protein NDRG3	S 331	98% (24.44)	0.9754	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0
IPI00237884	Isoform 1 of A-kinase anchor protein 12	S 285	98% (24.44)	0.9754	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00002135	Transforming acidic coiled-coil-containing protein 3	S 177	98% (22.70)	0.9754	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0
IPI00005715	Isoform 1 of Ubiquitin conjugation factor E4 B	S 803	98% (21.70)	0.9754	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00009471	WD-repeat protein 3	S 913	98% (10.31)	0.9752	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00396279	CLIP-associating protein 1	S 32	98% (7.97)	0.9752	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00396279	CLIP-associating protein 1	S 1196	98% (7.97)	0.9752	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00645145	CLASP1 protein	S 32	98% (7.97)	0.9752	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00645145	CLASP1 protein	S 1129	98% (7.97)	0.9752	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00216540	Isoform 4 of Protein kinase C-binding protein 1	S 331	98% (21.29)	0.9751	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00418316	RACK7 isoform e	S 727	98% (21.29)	0.9751	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00640598	protein kinase C binding protein 1 isoform a	S 727	98% (21.29)	0.9751	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00718938	Isoform 6 of Protein kinase C-binding protein 1	S 562	98% (21.29)	0.9751	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00719682	Isoform 7 of Protein kinase C-binding protein 1	S 726	98% (21.29)	0.9751	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00740207	RACK7 isoform j	S 702	98% (21.29)	0.9751	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00741204	RACK7 isoform f	S 702	98% (21.29)	0.9751	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748579	RACK7 isoform d	S 702	98% (21.29)	0.9751	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00020021	Protein DEK	S 303	98% (8.22)	0.9751	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00100453	DENN domain containing protein	S 621	97% (19.86)	0.9750	4	5	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00746398	hypothetical protein LOC55667	S 737	97% (19.86)	0.9750	4	5	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00657687	Isoform 1 of Actin-binding protein anillin	S 323	97% (18.93)	0.9749	4	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0
IPI00743594	124 kDa protein	S 324	97% (18.93)	0.9749	4	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0
IPI00299571	CDNA FLJ45525 fis, clone BRTHA2026311, highly similar to Protein disulfide isomerase A6	S 195	97% (14.19)	0.9747	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00297191	CRSP complex subunit 2	S 1112	97% (19.86)	0.9747	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00177743	251 kDa protein	S 1547	97% (15.81)	0.9746	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	S 316	97% (18.53)	0.9745	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00002349	FMRP interacting protein, 82kD	S 572	97% (15.92)	0.9744	12	12	1	1	1	0	1	0	1	1	1	0	1	0	1	1	1	0	1	0	1	2	1	1	1	0	1	1	0	0	1	0	1	1	1	0	0	0
IPI00394829	hypothetical protein LOC286077	S 1147	97% (15.92)	0.9744	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	1	0	0	0	0	0	1	1
IPI00643014	retinoblastoma-associated factor 600	S 2718	97% (15.92)	0.9744	4	3	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
IPI00746934	574 kDa protein	S 2719	97% (15.92)	0.9744	4	3	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
IPI00375731	Hypothetical protein DKFZp686E2459	S 798	97% (8.14)	0.9743	3	2	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00449923	Isoform 1 of Retinoic acid-induced protein 1	S 1133	97% (18.00)	0.9743	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00449924	Isoform 2 of Retinoic acid-induced protein 1	S 1086	97% (18.00)	0.9743	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00647688	198 kDa protein	S 1084	97% (18.00)	0.9743	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1227	97% (18.81)	0.9742	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216689	Poly(rC)-binding protein 2	S 188	97% (20.53)	0.9741	8	6	0	1	0	1	1	0	0	0	1	2	0	0	1	1	0	0	0	0	0	1	0	0	1	0	0	0	1	0	1	0	0	0	1	1	0	0
IPI00011635	Isoform 2 of Bcl-2-like 13 protein	S 426	97% (16.91)	0.9739	6	1	0	1	2	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00554560	Hypothetical protein 101F10.1	S 42	97% (23.57)	0.9738	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746731	Conserved hypothetical protein	S 68	97% (23.57)	0.9738	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00221235	nucleoporin 160kDa	S 1157	97% (18.73)	0.9738	12	12	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0
IPI00748807	Isoform 1 of Nuclear pore complex protein Nup160	S 1123	97% (18.73)	0.9738	12	12	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0
IPI00513791	dedicator of cytokinesis 7	S 910	97% (20.00)	0.9735	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00175146	hypothetical protein LOC196441	S 1303	97% (20.41)	0.9734	5	6	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00000690	Isoform 1 of Programmed cell death protein 8, mitochondrial precursor	S 519	97% (20.41)	0.9734	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00008137	Zinc finger protein 295	S 411	97% (20.41)	0.9734	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00010951	Epiplakin	S 2691	97% (20.41)	0.9734	3	6	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00297254	Signal-induced proliferation-associated 1-like protein 3	S 100	97% (20.41)	0.9734	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00297579	Chromobox protein homolog 3	S 93	97% (20.41)	0.9734	4	2	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00307591	zinc finger protein 609	S 467	97% (20.41)	0.9734	2	2	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00386211	family with sequence similarity 44, member A	S 482	97% (20.41)	0.9734	6	6	1	1	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0
IPI00455518	MORC family CW-type zinc finger 2	S 663	97% (20.41)	0.9734	8	10	1	0	0	1	0	0	1	1	0	1	0	0	2	1	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	3	2	0	1	0	0
IPI00302149	Isoform 1 of Polyhomeotic-like protein 3	S 616	97% (15.74)	0.9733	7	5	1	1	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00658100	Isoform 2 of Polyhomeotic-like protein 3	S 597	97% (15.74)	0.9733	7	5	1	1	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00044583	Isoform 1 of Transcriptional-regulating factor 1	S 619	97% (15.65)	0.9728	3	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00104050	Thyroid hormone receptor-associated protein 3	S 379	97% (15.65)	0.9728	2	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00032342	Thyroid receptor-interacting protein 12	S 814	97% (19.69)	0.9728	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00170548	Isoform 1 of ATPase family AAA domain-containing protein 2	S 1139	97% (15.61)	0.9725	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00396387	guanine nucleotide binding protein-like 1	S 324	97% (21.51)	0.9725	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00337530	Isoform 1 of RalBP1-associated Eps domain-containing protein 1	S 485	97% (22.45)	0.9723	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00337532	Isoform 3 of RalBP1-associated Eps domain-containing protein 1	S 484	97% (22.45)	0.9723	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00297160	CD44 antigen isoform 4 precursor	S 323	97% (20.82)	0.9723	10	17	2	1	0	0	1	0	0	1	0	0	1	0	2	1	0	0	1	0	1	2	0	0	1	0	2	1	0	1	2	0	0	2	1	2	2	0
IPI00305064	Isoform CD44 of CD44 antigen precursor	S 704	97% (20.82)	0.9723	10	17	2	1	0	0	1	0	0	1	0	0	1	0	2	1	0	0	1	0	1	2	0	0	1	0	2	1	0	1	2	0	0	2	1	2	2	0
IPI00418465	CD44 antigen isoform 2 precursor	S 661	97% (20.82)	0.9723	10	17	2	1	0	0	1	0	0	1	0	0	1	0	2	1	0	0	1	0	1	2	0	0	1	0	2	1	0	1	2	0	0	2	1	2	2	0
IPI00419219	CD44 antigen isoform 3 precursor	S 455	97% (20.82)	0.9723	10	17	2	1	0	0	1	0	0	1	0	0	1	0	2	1	0	0	1	0	1	2	0	0	1	0	2	1	0	1	2	0	0	2	1	2	2	0
IPI00446377	CDNA FLJ41744 fis, clone HSYRA2005496, highly similar to ENDOGLIN	S 292	97% (8.26)	0.9723	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00455518	MORC family CW-type zinc finger 2	S 715	97% (17.69)	0.9722	2	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0
IPI00099834	Ubinuclein	S 240	97% (9.88)	0.9722	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00011689	Elongation factor 2 kinase	S 470	97% (18.41)	0.9721	3	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00299254	Eukaryotic translation initiation factor 5B	S 182	97% (18.42)	0.9719	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005625	136 kDa protein	S 1119	97% (20.17)	0.9719	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00384541	Novel protein	S 614	97% (20.17)	0.9719	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00639879	Novel protein	S 588	97% (20.17)	0.9719	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00019901	Isoform 1 of Alpha-adducin	S 12	97% (18.42)	0.9718	9	12	0	1	1	0	0	0	0	1	1	1	0	0	1	1	1	1	0	0	1	1	1	1	0	0	1	1	1	1	0	0	1	2	1	0	0	0
IPI00167053	Isoform 1b of Oxysterol-binding protein-related protein 3	S 273	97% (18.42)	0.9718	3	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00169296	Isoform 2b of Oxysterol-binding protein-related protein 3	S 273	97% (18.42)	0.9718	3	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00220158	Isoform 3 of Alpha-adducin	S 12	97% (18.42)	0.9718	9	12	0	1	1	0	0	0	0	1	1	1	0	0	1	1	1	1	0	0	1	1	1	1	0	0	1	1	1	1	0	0	1	2	1	0	0	0
IPI00260388	PHD finger protein 2	S 1064	97% (18.42)	0.9718	3	5	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
IPI00376493	PHD finger protein 2 isoform b	S 1064	97% (18.42)	0.9718	3	5	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
IPI00477501	121 kDa protein	S 1058	97% (18.42)	0.9718	3	5	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
IPI00718792	LOC387680 protein (Fragment)	S 927	97% (18.42)	0.9718	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00221325	Ran-binding protein 2	S 2280	97% (18.41)	0.9718	1	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00329115	Isoform 1 of Protein C10orf47	S 43	97% (18.41)	0.9718	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0
IPI00642862	Peptidyl-prolyl cis-trans isomerase-like 4	S 178	97% (15.48)	0.9717	19	17	1	1	3	1	0	0	1	1	3	1	0	0	1	2	3	1	0	0	1	2	3	2	0	0	1	1	2	0	0	0	1	2	2	0	0	0
IPI00026970	chromatin-specific transcription elongation factor large subunit	S 979	97% (9.69)	0.9714	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00069309	Hypothetical protein DKFZp434K1815	S 243	97% (20.87)	0.9713	17	11	3	3	0	0	0	0	3	2	0	0	0	0	3	3	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0	0	3	1	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 323	97% (22.45)	0.9711	7	8	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	4	0	0	0	0	0
IPI00014843	leucine rich repeat containing 16	S 1094	97% (20.00)	0.9708	3	6	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00014843	leucine rich repeat containing 16	S 1246	97% (20.00)	0.9708	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00021766	Isoform 1 of Reticulon-4	S 181	97% (20.00)	0.9708	8	6	0	1	0	1	0	0	0	1	0	3	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	2	1	0	1	0	0
IPI00024291	Bcl2-antagonist of cell death	S 75	97% (20.00)	0.9708	4	5	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0
IPI00170596	Paired amphipathic helix protein Sin3a	S 1112	97% (20.00)	0.9708	3	3	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00219675	Isoform B of Ras-related C3 botulinum toxin substrate 1 precursor	S 71	97% (20.00)	0.9708	3	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00328867	Isoform 2 of Proto-oncogene tyrosine-protein kinase Src	S 74	97% (20.00)	0.9708	2	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00478442	reticulon 4 isoform D	S 181	97% (20.00)	0.9708	8	6	0	1	0	1	0	0	0	0	1	0	3	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	2	1	0	1	0
IPI00746051	Hypothetical protein FLJ20048	S 313	97% (20.00)	0.9708	3	6	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00746051	Hypothetical protein FLJ20048	S 465	97% (20.00)	0.9708	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00015618	Hypothetical protein FLJ20291	S 218	97% (14.02)	0.9707	5	4	0	0	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	2	0	0
IPI00183535	Isoform 1 of REST corepressor 3	S 156	97% (18.21)	0.9705	6	2	0	0	2	0	1	0	0	0	2	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219841	DNA ligase 1	S 913	97% (17.91)	0.9704	3	2	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
IPI00289082	Tyrosine-protein phosphatase non-receptor type 12	S 332	97% (18.19)	0.9703	8	6	1	2	0	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	0	2	0	0	0	0	0	1	2	0	0	0	0	1	0	0	0	0
IPI00419933	Pleckstrin homology domain containing, family A member 2	S 631	97% (22.12)	0.9700	2	5	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00418313	Isoform 4 of Interleukin enhancer-binding factor 3	S 62	97% (18.13)	0.9700	4	2	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00152503	Protein deltex 3-like protein	S 202	97% (15.21)	0.9699	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00045914	Msx2-interacting protein	S 2124	97% (19.86)	0.9698	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00185919	Isoform 1 of La-related protein 1	S 774	97% (19.86)	0.9698	19	15	2	3	2	0	0	0	2	2	2	0	0	0	2	2	2	0	0	0	2	2	2	0	0	0	2	2	1	0	0	0	2	2	0	0	0	0
IPI00396098	hypothetical protein LOC168850	S 336	97% (19.86)	0.9698	11	12	2	1	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0
IPI00411559	Isoform 1 of Structural maintenance of chromosomes 4-like 1 protein	S 28	97% (17.01)	0.9695	19	18	4	1	0	0	0	0	6	0	0	0	0	0	8	0	0	0	0	0	5	1	0	0	0	0	4	1	0	0	0	0	6	1	0	0	0	0
IPI00166512	stromal interaction molecule 1 precursor	S 628	97% (22.01)	0.9695	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00299063	Stromal interaction molecule 1 precursor	S 628	97% (22.01)	0.9695	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00178047	Proline and glutamic acid rich nuclear protein isoform	S 517	97% (17.80)	0.9694	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00549473	PREDICTED: similar to Forkhead box protein K1 (Myocyte nuclear factor) (MNF) isoform 1	S 101	97% (14.89)	0.9693	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00556645	forkhead box K1	S 264	97% (14.89)	0.9693	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00215948	Isoform 1 of Alpha-1 catenin	S 652	97% (15.34)	0.9693	2	5	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
IPI00217468	Histone H1.5	S 1	97% (15.08)	0.9692	5	9	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	2	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0
IPI00217418	Isoform 2 of Rho-GTPase-activating protein 12	S 213	97% (20.98)	0.9692	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00328279	Isoform 1 of Rho-GTPase-activating protein 12	S 213	97% (20.98)	0.9692	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00410501	ARHGAP12 protein	S 213	97% (20.98)	0.9692	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00554788	Keratin, type I cytoskeletal 18	S 15	97% (18.00)	0.9690	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00004399	ERBB receptor feedback inhibitor 1	S 251	97% (15.08)	0.9690	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00012079	Eukaryotic translation initiation factor 4B	S 497	97% (21.94)	0.9690	2	4	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	S 242	97% (14.89)	0.9689	5	5	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00237884	Isoform 1 of A-kinase anchor protein 12	S 370	97% (19.69)	0.9687	2	10	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	3	3	0	0	0	0
IPI00329236	Protein kinase C delta type	S 304	97% (19.68)	0.9686	3	8	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	0	3	0	0	0	0	1	1	0	0	0
IPI00384562	protein kinase C, delta	S 304	97% (19.68)	0.9686	3	8	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	0	3	0	0	0	0	1	1	0	0	0
IPI00217121	Protein C19orf21	S 675	97% (7.43)	0.9683	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00554761	Nonhistone chromosomal protein HMG-14	S 7	97% (7.43)	0.9683	2	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00413734	Isoform 6 of Transcriptional regulator ATRX	S 807	97% (9.34)	0.9683	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1099	97% (16.66)	0.9682	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00012341	Isoform SRP40-1 of Splicing factor, arginine/serine-rich 5	S 229	97% (7.71)	0.9682	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00555857	CS0DF038YO05 variant (Fragment)	S 283	97% (7.71)	0.9682	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00014414	Bromodomain-containing protein 2	S 298	97% (21.68)	0.9681	4	3	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00440502	BRD2 protein	S 298	97% (21.68)	0.9681	4	3	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00645146	88 kDa protein	S 298	97% (21.68)	0.9681	4	3	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00748005	92 kDa protein	S 298	97% (21.68)	0.9681	4	3	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00413734	Isoform 6 of Transcriptional regulator ATRX	S 803	97% (9.30)	0.9679	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00025366	Citrate synthase, mitochondrial precursor	S 463	97% (9.78)	0.9679	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00027152	Centromere protein A	S 27	97% (15.91)	0.9676	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00386842	CENPA protein	S 27	97% (15.91)	0.9676	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00186028	Hypothetical protein DKFZp434A112	S 442	97% (14.89)	0.9676	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00296432	Isoform 1 of IWS1-like protein	S 54	97% (14.89)	0.9676	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00297251	MGRN1 protein	S 459	97% (14.89)	0.9676	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00643212	KIAA0544 protein	S 459	97% (14.89)	0.9676	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1064	97% (14.89)	0.9676	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00748953	110 kDa protein	S 444	97% (14.89)	0.9676	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00027272	breast cancer 1, early onset isoform BRCA1-delta14-17	S 1189	97% (17.36)	0.9675	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00027273	breast cancer 1, early onset isoform BRCA1-delta14-18	S 1189	97% (17.36)	0.9675	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00218982	Breast cancer type 1 susceptibility protein	S 1189	97% (17.36)	0.9675	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00297234	breast cancer 1, early onset isoform BRCA1-delta9-10	S 1148	97% (17.36)	0.9675	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00160348	claspin	S 1327	97% (14.02)	0.9673	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00744511	CLSPN protein	S 1263	97% (14.02)	0.9673	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748041	Claspin homolog	S 1329	97% (14.02)	0.9673	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00457284	hypothetical protein LOC23131	S 478	97% (14.47)	0.9673	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00173946	TPR domain, ankyrin-repeat and coiled-coil-containing	S 465	97% (25.11)	0.9672	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00013743	Hypothetical protein BUD13	S 185	97% (8.14)	0.9672	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1460	97% (14.63)	0.9671	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00719015	Isoform 2 of Dedicator of cytokinesis protein 9	S 1274	97% (20.70)	0.9670	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00021954	Golgi-specific brefeldin A-resistance guanine nucleotide exchange factor 1	S 1784	97% (22.45)	0.9670	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00299524	Condensin complex subunit 1	S 1333	97% (19.38)	0.9664	6	6	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0
IPI00396378	Isoform B1 of Heterogeneous nuclear ribonucleoproteins A2/B1	S 344	97% (19.38)	0.9664	3	4	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0
IPI00152503	Protein deltex 3-like protein	S 539	97% (19.37)	0.9663	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00002188	Brefeldin A-inhibited guanine nucleotide-exchange protein 1	S 1555	97% (23.02)	0.9662	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00411559	Isoform 1 of Structural maintenance of chromosomes 4-like 1 protein	S 27	97% (14.63)	0.9660	6	8	2	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	2	0	0	0	0	0	0
IPI00163644	Oxysterol-binding protein	S 809	97% (20.91)	0.9658	3	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00394737	Isoform 2 of Oxysterol-binding protein-related protein 8	S 793	97% (20.91)	0.9658	3	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00006211	VAMP-associated protein B/C	S 156	97% (17.01)	0.9657	2	3	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00028618	Methylated-DNA--protein-cysteine methyltransferase	S 201	97% (14.63)	0.9656	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00419979	p21-activated kinase 2	S 132	97% (14.63)	0.9656	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00185919	Isoform 1 of La-related protein 1	S 548	97% (14.63)	0.9656	11	9	1	2	1	0	0	0	1	1	1	0	0	0	1	2	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	2	1	0	0	0	0
IPI00376404	fetal Alzheimer antigen isoform 2	S 33	97% (14.63)	0.9656	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00454910	Serine/threonine-protein kinase MRCK gamma	S 1482	97% (14.63)	0.9656	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00023048	Elongation factor 1-delta	S 117	97% (7.21)	0.9652	10	3	0	0	1	2	2	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00218648	Isoform III of AT-rich interactive domain-containing protein 4A	S 863	97% (7.21)	0.9652	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00642971	eukaryotic translation elongation factor 1 delta isoform 1	S 484	97% (7.21)	0.9652	10	3	0	0	1	2	2	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00395887	Thioredoxin domain-containing protein 1 precursor	S 253	97% (14.56)	0.9651	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00414315	Isoform 1 of Epidermal growth factor receptor kinase substrate 8-like protein 2	S 459	96% (22.19)	0.9649	5	7	1	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	1	1	1	0	0	0	0	1	0	0	0	0	1	1	1	0	0	0
IPI00216540	Isoform 4 of Protein kinase C-binding protein 1	S 84	96% (20.41)	0.9648	3	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00418316	RACK7 isoform e	S 480	96% (20.41)	0.9648	3	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00640598	protein kinase C binding protein 1 isoform a	S 480	96% (20.41)	0.9648	3	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00718938	Isoform 6 of Protein kinase C-binding protein 1	S 315	96% (20.41)	0.9648	3	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00719682	Isoform 7 of Protein kinase C-binding protein 1	S 479	96% (20.41)	0.9648	3	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00740207	RACK7 isoform j	S 455	96% (20.41)	0.9648	3	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00741204	RACK7 isoform f	S 455	96% (20.41)	0.9648	3	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748579	RACK7 isoform d	S 455	96% (20.41)	0.9648	3	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00292376	GEM-interacting protein	S 437	96% (20.41)	0.9648	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00045914	Msx2-interacting protein	S 1222	96% (17.43)	0.9648	3	5	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0
IPI00003373	Occludin	S 313	96% (19.16)	0.9647	5	5	0	0	1	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0
IPI00479078	Tight junction protein occludin TM4 minus	S 259	96% (19.16)	0.9647	5	5	0	0	1	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0
IPI00718918	PREDICTED: similar to Occludin	S 132	96% (19.16)	0.9647	5	5	0	0	1	1	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0
IPI00736401	PREDICTED: similar to Occludin	S 132	96% (19.16)	0.9647	5	5	0	0	1	1	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0
IPI00743585	59 kDa protein	S 313	96% (19.16)	0.9647	5	5	0	0	1	1	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0
IPI00745876	53 kDa protein	S 259	96% (19.16)	0.9647	5	5	0	0	1	1	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0
IPI00006171	Isoform 2 of Nuclear factor related to kappa-B-binding protein	S 376	96% (20.37)	0.9645	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00472161	Isoform 1 of Nuclear factor related to kappa-B-binding protein	S 351	96% (20.37)	0.9645	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00479248	Isoform 3 of Nuclear factor related to kappa-B-binding protein	S 351	96% (20.37)	0.9645	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00173946	TPR domain, ankyrin-repeat and coiled-coil-containing	S 313	96% (24.34)	0.9644	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00170770	PHD finger protein 3	S 1148	96% (22.10)	0.9643	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00005277	Cell cycle checkpoint control protein RAD9A	S 277	96% (21.30)	0.9642	2	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
IPI00011118	Ribonucleoside-diphosphate reductase M2 subunit	S 59	96% (15.65)	0.9642	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00031627	DNA-directed RNA polymerase II largest subunit	S 1884	96% (21.58)	0.9641	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00302151	Hypothetical protein CCDC87	S 311	96% (8.87)	0.9641	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218648	Isoform III of AT-rich interactive domain-containing protein 4A	S 549	96% (16.79)	0.9641	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00177381	hypothetical protein LOC57703	S 866	96% (22.93)	0.9640	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00016670	FLJ20625 protein	S 7	96% (9.19)	0.9636	2	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00006987	ATP-dependent RNA helicase DDX24	S 295	96% (15.03)	0.9635	6	2	1	1	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00479926	Isoform 2 of Ribosomal protein S6 kinase alpha-4	S 343	96% (7.21)	0.9634	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00027280	Isoform Beta-2 of DNA topoisomerase 2-beta	S 1400	96% (20.22)	0.9633	10	10	2	0	0	0	0	0	5	0	0	0	0	0	3	0	0	0	0	0	4	0	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0	0
IPI00217709	Isoform Beta-1 of DNA topoisomerase 2-beta	S 1395	96% (20.22)	0.9633	10	10	2	0	0	0	0	0	5	0	0	0	0	0	3	0	0	0	0	0	4	0	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0	0
IPI00014266	Isoform 1 of Bromodomain-containing protein 3	S 263	96% (18.04)	0.9632	2	2	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00005688	Zinc finger protein 185	S 337	96% (14.02)	0.9632	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
IPI00152093	Isoform 3 of Periphilin-1	S 150	96% (21.94)	0.9630	6	7	0	0	1	1	0	0	0	1	1	1	0	0	0	0	1	0	0	0	1	0	1	1	0	0	0	0	1	1	0	0	0	1	1	0	0	0
IPI00396937	Isoform 8 of Periphilin-1	S 205	96% (21.94)	0.9630	6	7	0	0	0	1	1	0	0	0	1	1	1	0	0	0	0	1	0	0	1	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0
IPI00397558	Isoform 5 of Periphilin-1	S 157	96% (21.94)	0.9630	6	7	0	0	0	1	1	0	0	0	1	1	1	0	0	0	0	1	0	0	1	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0
IPI00398799	Isoform 4 of Periphilin-1	S 157	96% (21.94)	0.9630	6	7	0	0	0	1	1	0	0	0	1	1	1	0	0	0	0	1	0	0	1	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00410039	Isoform 1 of Periphilin-1	S 205	96% (21.94)	0.9630	6	7	0	0	0	1	1	0	0	0	1	1	1	0	0	0	0	1	0	0	1	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0
IPI00410040	Isoform 2 of Periphilin-1	S 212	96% (21.94)	0.9630	6	7	0	0	0	1	1	0	0	0	1	1	1	0	0	0	0	1	0	0	1	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0
IPI00425404	Isoform 1 of Kinesin family member 21A	S 853	96% (21.94)	0.9630	2	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00425405	Isoform 2 of Kinesin family member 21A	S 840	96% (21.94)	0.9630	2	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00425407	Isoform 3 of Kinesin family member 21A	S 853	96% (21.94)	0.9630	2	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00425409	Isoform 4 of Kinesin family member 21A	S 853	96% (21.94)	0.9630	2	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00396098	hypothetical protein LOC168850	S 426	96% (20.17)	0.9628	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00013107	Isoform 1 of Splicing factor, arginine/serine-rich 16	S 335	96% (23.84)	0.9628	5	4	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0
IPI00432061	Isoform 3 of Splicing factor, arginine/serine-rich 16	S 320	96% (23.84)	0.9628	5	4	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0
IPI00027280	Isoform Beta-2 of DNA topoisomerase 2-beta	S 1461	96% (19.69)	0.9628	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00217709	Isoform Beta-1 of DNA topoisomerase 2-beta	S 1456	96% (19.69)	0.9628	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00445401	Isoform 2 of HECT, UBA and WWE domain-containing protein 1	S 2372	96% (20.08)	0.9622	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00456919	Isoform 1 of HECT, UBA and WWE domain-containing protein 1	S 2372	96% (20.08)	0.9622	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00643153	Isoform 3 of HECT, UBA and WWE domain-containing protein 1	S 2363	96% (20.08)	0.9622	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00183794	zinc finger protein 265 isoform 2	S 294	96% (9.34)	0.9621	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00719759	Akt substrate AS250	S 820	96% (14.02)	0.9621	9	4	4	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00010088	Histone deacetylase 4	S 632	96% (20.08)	0.9621	3	2	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00413659	Isoform 2 of Alkylated repair protein alkB homolog 5	S 69	96% (14.19)	0.9621	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00759562	Isoform 1 of Alkylated repair protein alkB homolog 5	S 69	96% (14.19)	0.9621	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	S 875	96% (14.19)	0.9620	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00029601	Src substrate cortactin	S 419	96% (17.08)	0.9619	19	17	0	1	3	2	1	0	1	1	2	2	1	0	1	1	1	1	1	0	1	1	1	1	1	0	1	1	2	1	1	0	1	2	2	0	1	0
IPI00062884	cortactin isoform b	S 381	96% (17.08)	0.9619	19	17	0	1	3	2	1	0	1	1	2	2	1	0	1	1	1	1	1	0	1	1	1	1	1	0	1	1	2	1	1	0	1	2	2	0	1	0
IPI00409607	Novel protein	S 599	96% (17.08)	0.9619	5	5	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00642366	calmodulin regulated spectrin-associated protein 1-like 1	S 588	96% (17.08)	0.9619	5	5	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00746806	CTTN protein	S 381	96% (17.08)	0.9619	19	17	0	1	3	2	1	0	1	1	2	2	1	0	1	1	1	1	1	0	1	1	1	1	1	0	1	1	2	1	1	0	1	2	2	0	1	0
IPI00001707	Isoform 1 of Bromodomain-containing protein 7	S 289	96% (14.19)	0.9619	3	2	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00647008	Isoform 2 of Bromodomain-containing protein 7	S 289	96% (14.19)	0.9619	3	2	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00306929	Isoform 1 of Myosin-18B	S 75	96% (14.19)	0.9619	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00550506	Isoform 1 of Rho guanine nucleotide exchange factor 16	S 191	96% (14.19)	0.9619	1	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0
IPI00306280	Density-regulated protein	S 74	96% (20.37)	0.9618	10	8	0	0	0	0	2	0	0	0	0	0	0	3	0	0	0	1	3	1	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	1	1	0
IPI00397015	Novel protein	S 846	96% (20.98)	0.9616	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00008283	Zinc finger protein 106 homolog	S 937	96% (14.14)	0.9615	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 2694	96% (14.02)	0.9615	4	6	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	1	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00290337	Epidermal growth factor receptor kinase substrate 8	S 661	96% (20.00)	0.9614	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00329638	Isoform 1 of Mitogen-activated protein kinase kinase kinase MLT	S 638	96% (20.00)	0.9614	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00302592	Filamin A, alpha	S 1827	96% (6.98)	0.9614	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00333541	Filamin-A	S 1834	96% (6.98)	0.9614	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00336000	Isoform 6 of Zinc finger CCHC domain-containing protein 6	S 172	96% (19.99)	0.9614	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00552923	Isoform 4 of Zinc finger CCHC domain-containing protein 6	S 172	96% (19.99)	0.9614	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00604491	Isoform 1 of Zinc finger CCHC domain-containing protein 6	S 172	96% (19.99)	0.9614	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00293451	Tight junction protein ZO-3	S 341	96% (24.34)	0.9613	5	0	0	1	0	0	0	0	0	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00744036	tight junction protein 3	S 360	96% (24.34)	0.9613	5	0	0	1	0	0	0	0	0	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00002564	DNA-repair protein XRCC1	S 266	96% (17.01)	0.9613	8	14	0	1	1	0	0	0	0	1	1	0	0	0	1	1	2	0	0	0	0	2	2	1	0	0	0	3	2	0	0	0	1	2	1	0	0	0
IPI00019205	Protein C14orf4	S 334	96% (17.01)	0.9613	4	5	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00020567	Rho-GTPase-activating protein 1	S 51	96% (17.01)	0.9613	3	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00419433	Isoform 1 of Rab11 family-interacting protein 1	S 434	96% (17.01)	0.9613	1	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00008575	Isoform 1 of KH domain-containing, RNA-binding, signal transduction-associated protein 1	S 18	96% (17.01)	0.9613	4	4	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0
IPI00082310	Isoform 3 of KH domain-containing, RNA-binding, signal transduction-associated protein 1	S 18	96% (17.01)	0.9613	4	4	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0
IPI00555610	313 kDa protein	S 2833	96% (17.01)	0.9613	5	2	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00029822	SMARCA4 isoform 2	S 1602	96% (14.00)	0.9613	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00293426	Probable global transcription activator SNF2L4	S 1570	96% (14.00)	0.9613	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00026952	Plakophilin-3	S 238	96% (14.08)	0.9610	8	11	0	1	1	0	1	0	0	1	1	0	0	0	0	1	1	0	1	0	0	1	1	0	1	0	0	1	1	1	1	0	0	0	1	1	1	1
IPI00250716	Isoform B of Bromodomain and WD-repeat domain-containing protein 1	S 2018	96% (14.07)	0.9609	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00289944	Isoform A of Bromodomain and WD-repeat domain-containing protein 1	S 2018	96% (14.07)	0.9609	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746752	Isoform C of Bromodomain and WD-repeat domain-containing protein 1	S 2018	96% (14.07)	0.9609	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00021320	Bin3, bicoid-interacting 3	S 216	96% (14.02)	0.9607	5	3	0	0	1	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
IPI00185326	Isoform 1 of JmjC domain-containing histone demethylation protein 1B	S 979	96% (13.99)	0.9607	3	2	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00455183	F-box and leucine-rich repeat protein 10 isoform b	S 910	96% (13.99)	0.9607	3	2	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00737594	Isoform 3 of JmjC domain-containing histone demethylation protein 1B	S 967	96% (13.99)	0.9607	3	2	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00747262	Isoform 2 of JmjC domain-containing histone demethylation protein 1B	S 982	96% (13.99)	0.9607	3	2	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00385001	Hypothetical protein DKFZp686L1653 (Fragment)	S 1598	96% (14.02)	0.9606	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00477040	nucleoporin 188kDa	S 1708	96% (14.02)	0.9606	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00060181	EF-hand domain-containing protein 2	S 76	96% (15.42)	0.9605	1	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00552365	EF hand domain containing 2	S 76	96% (15.42)	0.9605	1	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00103536	MAP-kinase activating death domain-containing protein isoform d	S 1059	96% (22.17)	0.9605	3	6	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00107838	MAP-kinase activating death domain-containing protein isoform a	S 1039	96% (22.17)	0.9605	3	6	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00107843	MAP-kinase activating death domain-containing protein isoform g	S 1059	96% (22.17)	0.9605	3	6	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00107844	MAP-kinase activating death domain-containing protein isoform a	S 1039	96% (22.17)	0.9605	3	6	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00237706	MAP-kinase activating death domain-containing protein isoform f	S 996	96% (22.17)	0.9605	3	6	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00292094	MAP-kinase activating death domain-containing protein isoform b	S 1016	96% (22.17)	0.9605	3	6	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00292095	MAP-kinase activating death domain-containing protein isoform e	S 1059	96% (22.17)	0.9605	3	6	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00376607	MAP-kinase activating death domain-containing protein isoform c	S 996	96% (22.17)	0.9605	3	6	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00011069	Isoform 2 of Uracil-DNA glycosylase	S 63	96% (14.02)	0.9605	1	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00006937	Ubiquitin-conjugating enzyme E2 J1	S 266	96% (14.02)	0.9605	5	6	0	0	0	1	0	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	1	0	0
IPI00026952	Plakophilin-3	S 314	96% (14.02)	0.9605	7	7	0	1	0	1	0	0	0	2	0	1	0	0	0	1	0	1	0	0	0	1	2	1	0	0	0	0	1	1	0	0	0	1	0	0	0	0
IPI00221232	Guanine nucleotide-binding protein G(I)/G(S)/G(O) gamma-12 subunit precursor	S 6	96% (14.02)	0.9605	3	3	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1
IPI00292134	Epidermal growth factor receptor substrate 15	S 323	96% (14.02)	0.9605	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00385325	Epidermal growth factor receptor pathway substrate 15	S 323	96% (14.02)	0.9605	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00032358	Nuclear envelope pore membrane protein POM 121	S 357	96% (14.02)	0.9605	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00032957	Ubiquitin-conjugating enzyme E2 I	S 70	96% (14.02)	0.9605	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00329488	Isoform IB of Tyrosine-protein kinase ABL2	S 617	96% (14.02)	0.9605	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00383728	Isoform IA of Tyrosine-protein kinase ABL2	S 581	96% (14.02)	0.9605	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00413362	signal-induced proliferation-associated 1 like 1	S 161	96% (14.02)	0.9605	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00435422	Isoform 2 of Signal-induced proliferation-associated 1-like protein 1	S 161	96% (14.02)	0.9605	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00450472	Ubiquitin-conjugating enzyme E2I	S 70	96% (14.02)	0.9605	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00555819	Similar to Nuclear envelope pore membrane protein POM 121	S 357	96% (14.02)	0.9605	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00719587	Isoform IC of Tyrosine-protein kinase ABL2	S 602	96% (14.02)	0.9605	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00745593	V-abl Abelson murine leukemia viral oncogene homolog 2	S 602	96% (14.02)	0.9605	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00298949	Cyclin G-associated kinase	S 826	96% (19.68)	0.9604	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00015973	Band 4.1-like protein 2	S 598	96% (6.92)	0.9604	2	6	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	0	0	0	0	0
IPI00445401	Isoform 2 of HECT, UBA and WWE domain-containing protein 1	S 2888	96% (8.14)	0.9603	1	4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00456919	Isoform 1 of HECT, UBA and WWE domain-containing protein 1	S 2888	96% (8.14)	0.9603	1	4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00643153	Isoform 3 of HECT, UBA and WWE domain-containing protein 1	S 2879	96% (8.14)	0.9603	1	4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00445401	Isoform 2 of HECT, UBA and WWE domain-containing protein 1	S 3800	96% (19.86)	0.9603	10	10	2	1	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0	0	3	1	0	0	0	0	1	1	0	0	0	0	3	1	0	0	0	0
IPI00456919	Isoform 1 of HECT, UBA and WWE domain-containing protein 1	S 3816	96% (19.86)	0.9603	10	10	2	1	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0	0	3	1	0	0	0	0	1	1	0	0	0	0	3	1	0	0	0	0
IPI00643153	Isoform 3 of HECT, UBA and WWE domain-containing protein 1	S 3807	96% (19.86)	0.9603	10	10	2	1	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0	0	3	1	0	0	0	0	1	1	0	0	0	0	3	1	0	0	0	0
IPI00013788	HIV TAT specific factor 1	S 498	96% (13.99)	0.9602	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00003783	Dual specificity mitogen-activated protein kinase kinase 2	S 23	96% (19.86)	0.9602	5	3	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00658152	tensin-like SH2 domain containing 1	S 690	96% (23.44)	0.9602	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00759836	Tensin	S 792	96% (23.44)	0.9602	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00296291	HP1-BP74	S 156	96% (13.98)	0.9601	7	2	0	0	2	0	0	0	0	1	0	1	0	0	0	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00642238	Hypothetical protein DKFZp434I0612	S 156	96% (13.98)	0.9601	7	2	0	0	2	0	0	0	0	1	0	1	0	0	0	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00646486	HP1-BP74	S 118	96% (13.98)	0.9601	7	2	0	0	2	0	0	0	0	1	0	1	0	0	0	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00744429	61 kDa protein	S 156	96% (13.98)	0.9601	7	2	0	0	2	0	0	0	0	1	0	1	0	0	0	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00164528	Alpha-1-syntrophin	S 201	96% (13.98)	0.9601	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00298696	Treacle protein	S 506	96% (13.98)	0.9601	20	20	4	3	0	1	0	0	3	2	1	1	0	0	2	3	0	0	0	0	4	3	0	0	0	0	3	2	0	0	0	0	3	3	1	0	0	1
IPI00409640	LISCH protein isoform 2	S 436	96% (13.98)	0.9601	3	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00409641	LISCH protein isoform 3	S 368	96% (13.98)	0.9601	3	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00641640	LISCH protein isoform 1	S 417	96% (13.98)	0.9601	3	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00747047	Treacle major isoform	S 583	96% (13.98)	0.9601	20	20	4	3	0	1	0	0	3	2	1	1	0	0	2	3	0	0	0	0	4	3	0	0	0	0	3	2	0	0	0	0	3	3	1	0	0	1
IPI00173461	Junctophilin-1	S 475	96% (12.16)	0.9599	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00337602	56 kDa protein	S 181	96% (14.51)	0.9597	9	8	0	3	2	0	0	0	0	1	2	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0
IPI00373877	Isoform 1 of Zinc finger protein 326	S 270	96% (14.51)	0.9597	9	8	0	3	2	0	0	0	0	1	2	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0
IPI00291638	RB1-inducible coiled-coil protein 1	S 266	96% (16.81)	0.9596	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00045360	Protein capicua homolog	S 1373	96% (16.76)	0.9593	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00045511	Mid-1-related chloride channel 1	S 464	96% (16.76)	0.9592	2	5	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0
IPI00103756	Mid-1-related chloride channel 4	S 279	96% (16.76)	0.9592	2	5	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0
IPI00103757	Mid-1-related chloride channel 3	S 343	96% (16.76)	0.9592	2	5	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0
IPI00396547	Mid-1-related chloride channel 1	S 414	96% (16.76)	0.9592	2	5	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0
IPI00414315	Isoform 1 of Epidermal growth factor receptor kinase substrate 8-like protein 2	S 479	96% (20.70)	0.9591	11	10	0	0	2	0	0	0	1	2	2	0	0	0	1	2	1	0	0	0	0	1	1	0	0	0	0	2	2	1	0	1	0	1	1	0	0	0
IPI00014376	RAB31, member RAS oncogene family variant	S 36	96% (16.76)	0.9591	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00409671	DEAD box polypeptide 42 protein	S 185	96% (21.63)	0.9589	15	13	0	3	0	0	0	0	3	2	0	0	0	0	3	4	0	0	0	0	2	3	0	0	0	0	1	3	0	0	0	0	1	3	0	0	0	0
IPI00328293	Serine¥/arginine repetitive matrix 1	S 784	96% (19.69)	0.9587	16	12	2	2	0	1	0	0	2	2	1	1	0	0	2	2	0	1	0	0	3	2	0	0	0	0	2	1	1	0	0	0	2	1	0	0	0	0
IPI00069084	Isoform 1 of Transformation/transcription domain-associated protein	S 2075	96% (13.81)	0.9584	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00394732	Isoform 2 of Transformation/transcription domain-associated protein	S 2057	96% (13.81)	0.9584	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220901	TBC1 domain family, member 4	S 571	96% (18.42)	0.9584	5	4	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0
IPI00183002	Isoform 1 of Protein phosphatase 1 regulatory subunit 12A	S 862	96% (20.06)	0.9584	4	5	0	0	0	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0
IPI00397728	Isoform 2 of Protein phosphatase 1 regulatory subunit 12A	S 862	96% (20.06)	0.9584	4	5	0	0	0	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0
IPI00397730	Isoform 4 of Protein phosphatase 1 regulatory subunit 12A	S 803	96% (20.06)	0.9584	4	5	0	0	0	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0
IPI00413191	Isoform 3 of Protein phosphatase 1 regulatory subunit 12A	S 806	96% (20.06)	0.9584	4	5	0	0	0	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1541	96% (18.41)	0.9583	9	7	2	0	0	0	0	0	4	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0
IPI00027272	breast cancer 1, early onset isoform BRCA1-delta14-17	S 1187	96% (16.28)	0.9583	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																				SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00027273	breast cancer 1, early onset isoform BRCA1-delta14-18	S 1187	96% (16.28)	0.9583	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00218982	Breast cancer type 1 susceptibility protein	S 1187	96% (16.28)	0.9583	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00297234	breast cancer 1, early onset isoform BRCA1-delta9-10	S 1146	96% (16.28)	0.9583	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00216952	Isoform C of Lamin-A/C	S 392	96% (19.54)	0.9582	2	5	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0
IPI00329635	Isoform 1 of Folliculin	S 68	96% (16.66)	0.9582	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00335641	Isoform 1 of MKL/myocardin-like protein 2	S 924	96% (16.66)	0.9582	2	4	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
IPI00418489	Isoform 4 of MKL/myocardin-like protein 2	S 885	96% (16.66)	0.9582	2	4	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
IPI00432363	Microtubule-actin crosslinking factor 1, isoform 4	S 1766	96% (16.66)	0.9582	1	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00478739	microfilament and actin filament cross-linker protein isoform b	S 1766	96% (16.66)	0.9582	1	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00514468	670 kDa protein	S 1766	96% (16.66)	0.9582	1	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00031812	Nuclease sensitive element-binding protein 1	S 208	96% (6.78)	0.9578	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0
IPI00411635	KIAA0802 protein	S 391	96% (6.77)	0.9576	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00006079	Isoform 1 of Bcl-2-associated transcription factor 1	S 297	96% (24.73)	0.9573	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00413671	Isoform 2 of Bcl-2-associated transcription factor 1	S 295	96% (24.73)	0.9573	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00413672	Isoform 3 of Bcl-2-associated transcription factor 1	S 295	96% (24.73)	0.9573	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00022460	Zinc finger protein 592	S 462	96% (8.21)	0.9571	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00159322	Isoform 1 of Transcription factor 20	S 381	96% (8.21)	0.9571	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220381	Isoform 2 of Transcription factor 20	S 381	96% (8.21)	0.9571	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00296432	Isoform 1 of IWS1-like protein	S 420	96% (18.04)	0.9564	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00177743	251 kDa protein	S 1543	96% (13.45)	0.9561	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00170770	PHD finger protein 3	S 1178	96% (21.16)	0.9561	10	7	2	1	0	0	0	0	4	1	0	0	0	0	2	0	0	0	0	0	3	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00016670	FLJ20625 protein	S 12	96% (7.22)	0.9559	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00398992	Isoform 1 of Chromodomain-helicase-DNA-binding protein 8	S 1141	96% (16.40)	0.9557	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00719073	Isoform 2 of Chromodomain-helicase-DNA-binding protein 8	S 1285	96% (16.40)	0.9557	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00030274	hypothetical protein LOC84081 isoform 1	S 291	96% (14.95)	0.9556	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00027280	Isoform Beta-2 of DNA topoisomerase 2-beta	S 1375	96% (13.51)	0.9555	5	4	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
IPI00217709	Isoform Beta-1 of DNA topoisomerase 2-beta	S 1370	96% (13.51)	0.9555	5	4	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
IPI00217851	PHACTR4 protein	S 291	96% (19.33)	0.9553	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00432436	PHACTR4 protein	S 275	96% (19.33)	0.9553	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00657967	79 kDa protein	S 301	96% (19.33)	0.9553	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00004399	ERBB receptor feedback inhibitor 1	S 302	96% (20.27)	0.9550	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
IPI00031015	Histone RNA hairpin-binding protein	S 23	95% (6.63)	0.9549	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
IPI00291916	pleckstrin homology domain interacting protein	S 674	95% (19.69)	0.9549	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00604517	74 kDa protein	S 28	95% (7.55)	0.9548	6	5	0	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 993	95% (21.46)	0.9546	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 998	95% (21.46)	0.9546	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00005024	Isoform 1 of Myb-binding protein 1A	S 1163	95% (13.38)	0.9544	4	5	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00607584	Isoform 2 of Myb-binding protein 1A	S 1163	95% (13.38)	0.9544	4	5	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00409635	KIAA1228 protein	S 730	95% (18.00)	0.9544	11	8	2	2	0	0	0	0	1	3	0	0	0	0	1	2	0	0	0	0	1	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0
IPI00328715	Protein LYRIC	S 308	95% (13.38)	0.9542	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00021048	Isoform 1 of Myoferlin	S 174	95% (8.22)	0.9541	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00142538	Isoform 1 of Probable helicase senataxin	S 1019	95% (6.59)	0.9541	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00165547	Isoform 2 of Phosphatidylinositol 4-kinase beta	S 294	95% (6.59)	0.9541	5	3	0	1	1	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00179953	Isoform 1 of Nuclear autoantigenic sperm protein	S 189	95% (6.59)	0.9541	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00296362	Isoform 1 of Abnormal spindle-like microcephaly-associated protein	S 605	95% (6.59)	0.9541	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00296830	Isoform 1 of Leucine zipper protein 1	S 639	95% (6.59)	0.9541	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00332499	nuclear autoantigenic sperm protein isoform 1	S 191	95% (6.59)	0.9541	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00395737	Isoform 2 of Leucine zipper protein 1	S 639	95% (6.59)	0.9541	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00719643	Isoform 3 of Probable helicase senataxin	S 1019	95% (6.59)	0.9541	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00743813	410 kDa protein	S 605	95% (6.59)	0.9541	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00744623	Isoform 3 of Leucine zipper protein 1	S 639	95% (6.59)	0.9541	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00022460	Zinc finger protein 592	S 464	95% (7.94)	0.9539	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00159322	Isoform 1 of Transcription factor 20	S 383	95% (7.94)	0.9539	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220381	Isoform 2 of Transcription factor 20	S 383	95% (7.94)	0.9539	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00187011	Zinc finger CCCH-type domain-containing protein C19orf7	S 1104	95% (16.76)	0.9537	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00030408	M-phase phosphoprotein 8	S 319	95% (13.33)	0.9537	6	7	0	1	1	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	1	1	1	0	0	0
IPI00394829	hypothetical protein LOC286077	S 7	95% (15.65)	0.9533	8	5	0	2	0	0	0	0	2	2	0	0	0	0	2	0	0	0	0	0	1	1	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00004970	Small subunit processome component 20 homolog	S 788	95% (16.15)	0.9532	1	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00738219	PREDICTED: similar to Down-regulated in metastasis protein	S 788	95% (16.15)	0.9532	1	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00014264	Centaurin-beta 2	S 384	95% (20.08)	0.9531	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00305020	SH2 domain-containing protein 3A	S 125	95% (13.25)	0.9528	5	6	0	1	1	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	1	2	0	0	0	0
IPI00291802	Isoform 3 of LIM domain only protein 7	S 692	95% (20.82)	0.9526	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00028357	Exportin-4	S 525	95% (16.08)	0.9525	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00014264	Centaurin-beta 2	S 379	95% (20.00)	0.9523	3	3	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00445401	Isoform 2 of HECT, UBA and WWE domain-containing protein 1	S 2887	95% (11.06)	0.9522	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00456919	Isoform 1 of HECT, UBA and WWE domain-containing protein 1	S 2887	95% (11.06)	0.9522	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00643153	Isoform 3 of HECT, UBA and WWE domain-containing protein 1	S 2878	95% (11.06)	0.9522	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1463	95% (13.12)	0.9516	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00221325	Ran-binding protein 2	S 1400	95% (6.47)	0.9516	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00100041	Isoform 1 of Lethal(3)malignant brain tumor-like 2 protein	S 689	95% (11.59)	0.9514	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00260388	PHD finger protein 2	S 882	95% (17.71)	0.9513	6	4	1	1	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00376493	PHD finger protein 2 isoform b	S 882	95% (17.71)	0.9513	6	4	1	1	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00477501	121 kDa protein	S 881	95% (17.71)	0.9513	6	4	1	1	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00294618	Proline-rich protein PRCC	S 267	95% (13.10)	0.9512	1	7	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0
IPI00399306	papillary renal cell carcinoma translocation-associated gene product isoform 2	S 267	95% (13.10)	0.9512	1	7	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0
IPI00514697	Papillary renal cell carcinoma	S 211	95% (13.10)	0.9512	1	7	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0
IPI00179700	high mobility group AT-hook 1 isoform a	S 36	95% (18.96)	0.9510	1	5	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00185027	Isoform 1 of Arginine-glutamic acid dipeptide repeats protein	S 679	95% (19.86)	0.9508	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00298696	Treacle protein	S 171	95% (19.86)	0.9508	4	5	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	0
IPI00747047	Treacle major isoform	S 171	95% (19.86)	0.9508	4	5	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	0
IPI00016570	Isoform 3 of Bromodomain-containing protein 8	S 473	95% (19.86)	0.9508	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00020719	Isoform 1 of Mitochondrial antiviral signaling protein	S 165	95% (19.86)	0.9508	6	12	0	0	3	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	1	3	1	0	0	0	1	3	0	0	0
IPI00148057	Isoform 2 of Bromodomain-containing protein 8	S 652	95% (19.86)	0.9508	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00289907	forty-two-three domain containing 1 isoform 1	S 16	95% (15.92)	0.9507	3	3	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0
IPI00552700	Hypothetical protein DKFZp761B1514	S 16	95% (15.92)	0.9507	3	3	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0
IPI00002349	FMRP interacting protein, 82kD	S 112	95% (15.92)	0.9507	2	2	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
IPI00032342	Thyroid receptor-interacting protein 12	S 942	95% (15.92)	0.9507	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00744288	Isoform 5 of C-jun-amino-terminal kinase-interacting protein 4	S 719	95% (15.92)	0.9507	9	5	2	1	0	0	0	0	1	1	0	0	0	0	2	2	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00016670	FLJ20625 protein	S 6	95% (7.91)	0.9496	2	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00302917	AT rich interactive domain 4B isoform 2	S 690	95% (12.96)	0.9496	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00328828	AT rich interactive domain 4B isoform 1	S 776	95% (12.96)	0.9496	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00744288	Isoform 5 of C-jun-amino-terminal kinase-interacting protein 4	S 714	95% (15.81)	0.9496	2	2	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 1216	95% (12.07)	0.9493	9	7	3	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	3	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 1221	95% (12.07)	0.9493	9	7	3	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	3	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00154515	Smad nuclear-interacting protein 1	S 54	95% (17.32)	0.9491	2	4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0
IPI00217975	Lamin-B1	S 22	95% (11.10)	0.9490	5	9	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	2	1	0	0	0	0	0	2	1	0	0	0	1	1	1	0	0
IPI00012199	Hypothetical protein FLJ22321	S 66	95% (12.79)	0.9489	2	4	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0
IPI00028077	Isoform 1 of Presenilin-1	S 346	95% (16.45)	0.9483	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219934	Isoform 2 of Presenilin-1	S 342	95% (16.45)	0.9483	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216044	Isoform 1 of RNA-binding protein Raly	S 279	95% (12.63)	0.9480	7	5	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	1	1	1	0	0	1	0	0	0	0	0	1	0	0	0	2	0	0	0	0
IPI00307591	zinc finger protein 609	S 578	95% (12.81)	0.9478	3	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00217413	DEAH (Asp-Glu-Ala-His) box polypeptide 29	S 200	95% (12.81)	0.9478	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00006093	Protein FAM38A	S 977	95% (6.47)	0.9477	3	3	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00000634	Coiled-coil domain-containing protein 6	S 325	95% (15.65)	0.9477	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00304493	serum response factor binding protein 1	S 203	95% (15.65)	0.9477	1	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00304875	Isoform 1 of HIRA-interacting protein 3	S 223	95% (6.91)	0.9474	2	3	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00010746	Phosphatidylserine synthase 1	S 442	95% (17.32)	0.9470	27	30	4	3	3	1	0	0	3	3	3	1	0	0	3	2	0	1	0	0	4	4	2	1	0	0	3	2	2	1	1	0	4	4	1	1	0	0
IPI00004472	Isoform 1 of Serine/threonine-protein kinase WNK1	S 1308	95% (22.47)	0.9464	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00397590	Isoform 2 of Serine/threonine-protein kinase WNK1	S 1062	95% (22.47)	0.9464	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00747266	226 kDa protein	S 1062	95% (22.47)	0.9464	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00748509	251 kDa protein	S 1308	95% (22.47)	0.9464	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00025333	Isoform 3 of Anamorsin	S 255	95% (6.76)	0.9464	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00387130	Isoform 1 of Anamorsin	S 268	95% (6.76)	0.9464	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00032236	Isoform 2 of Angiomotin-like protein 2	S 183	95% (17.26)	0.9463	2	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00478030	Isoform 1 of Angiomotin-like protein 2	S 183	95% (17.26)	0.9463	2	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00328905	185 kDa protein	S 1426	95% (12.68)	0.9462	4	6	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0
IPI00514068	Ras GTPase-activating-like protein IQGAP3	S 1424	95% (12.68)	0.9462	4	6	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0
IPI00746773	IQ motif containing GTPase activating protein 3	S 1381	95% (12.68)	0.9462	4	6	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0
IPI00291802	Isoform 3 of LIM domain only protein 7	S 1159	95% (12.65)	0.9458	3	6	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0
IPI00005264	Isoform 2 of Plakophilin-2	S 329	95% (12.62)	0.9454	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219688	Isoform 1 of Plakophilin-2	S 329	95% (12.62)	0.9454	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010158	Chromatin accessibility complex protein 1	S 131	95% (6.19)	0.9454	4	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0
IPI00008917	Isoform 1 of Doublecortin domain-containing protein 2	S 270	95% (18.42)	0.9454	2	3	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00021954	Golgi-specific brefeldin A-resistance guanine nucleotide exchange factor 1	S 1318	95% (18.42)	0.9454	8	7	2	0	1	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0
IPI00169434	Grb10 interacting GYF protein 2	S 26	95% (18.42)	0.9454	3	7	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	0	1	0	1	0	0
IPI00436632	Isoform 1 of Nipped-B-like protein	S 350	95% (18.42)	0.9454	6	5	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00260388	PHD finger protein 2	S 879	95% (19.69)	0.9453	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00376493	PHD finger protein 2 isoform b	S 879	95% (19.69)	0.9453	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00477501	121 kDa protein	S 878	95% (19.69)	0.9453	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00465287	ras responsive element binding protein 1 isoform 2	S 1219	95% (17.17)	0.9452	3	4	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00465288	ras responsive element binding protein 1 isoform 1	S 1219	95% (17.17)	0.9452	3	4	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00218753	Isoform 3 of DNA topoisomerase 2-alpha	S 1510	94% (15.65)	0.9444	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00218754	Isoform 4 of DNA topoisomerase 2-alpha	S 1555	94% (15.65)	0.9444	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00414101	Isoform 2 of DNA topoisomerase 2-alpha	S 1501	94% (15.65)	0.9444	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00478232	Isoform 1 of DNA topoisomerase 2-alpha	S 1511	94% (15.65)	0.9444	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00012079	Eukaryotic translation initiation factor 4B	S 422	94% (20.41)	0.9444	7	9	1	1	1	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	1	1	0	1	0	0	0	2	2	0	0	0	1	0	1	0	0	0
IPI00291802	Isoform 3 of LIM domain only protein 7	S 1252	94% (20.08)	0.9443	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	1	1	1	0	0	0	0	1	0	0
IPI00021786	RAF proto-oncogene serine/threonine-protein kinase	S 621	94% (21.68)	0.9442	1	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00015580	formin binding protein 1-like isoform 2	S 430	94% (12.52)	0.9441	8	6	0	0	2	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	1	2	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0
IPI00028718	Formin binding protein 1-like	S 483	94% (12.52)	0.9441	8	6	0	0	2	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	1	2	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0
IPI00607808	formin binding protein 1-like isoform 1	S 430	94% (12.52)	0.9441	8	6	0	0	2	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	1	2	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0
IPI00646028	Formin binding protein 1-like	S 483	94% (12.52)	0.9441	8	6	0	0	2	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	1	2	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0
IPI00028122	Isoform 1 of PC4 and SFRS1-interacting protein	S 273	94% (17.08)	0.9441	10	9	0	1	2	1	0	0	0	2	1	2	0	0	0	1	0	0	0	0	0	2	1	1	0	0	0	1	0	2	0	0	0	1	0	1	0	0
IPI00006211	VAMP-associated protein B/C	S 160	94% (17.08)	0.9441	4	4	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	S 2198	94% (17.08)	0.9441	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00028954	80 kda MCM3-associated protein	S 557	94% (17.08)	0.9441	4	6	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00220490	SH3 and multiple ankyrin repeat domains 2 isoform 1	S 365	94% (17.08)	0.9441	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00304885	Centromere protein C 1	S 538	94% (18.31)	0.9441	2	2	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00166512	stromal interaction molecule 1 precursor	S 660	94% (16.72)	0.9440	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00299063	Stromal interaction molecule 1 precursor	S 660	94% (16.72)	0.9440	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00161085	Isoform 1 of Nucleolar protein 8	S 1042	94% (19.27)	0.9440	3	3	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00480054	Isoform 3 of Nucleolar protein 8	S 910	94% (19.27)	0.9440	3	3	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00643700	Isoform 4 of Nucleolar protein 8	S 998	94% (19.27)	0.9440	3	3	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00759630	Isoform 2 of Nucleolar protein 8	S 968	94% (19.27)	0.9440	3	3	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00103525	Paraspeckle protein 1 alpha isoform	S 473	94% (12.50)	0.9439	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00646885	Rho GTPase activating protein 5 isoform a	S 1173	94% (17.01)	0.9438	11	9	4	0	0	0	0	0	3	0	0	0	0	0	4	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0
IPI00220490	SH3 and multiple ankyrin repeat domains 2 isoform 1	S 853	94% (20.70)	0.9437	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1552	94% (12.81)	0.9435	4	6	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00004233	Isoform Long of Antigen KI-67	S 859	94% (20.00)	0.9433	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00301293	antigen identified by monoclonal antibody Ki-67	S 859	94% (20.00)	0.9433	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00297931	Isoform 1 of AP1 gamma subunit-binding protein 1	S 935	94% (20.00)	0.9433	4	1	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00375252	AP1GBP1 protein	S 857	94% (20.00)	0.9433	4	1	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00394715	AP1 gamma subunit binding protein 1 isoform 2	S 935	94% (20.00)	0.9433	4	1	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00002803	Serine/threonine-protein kinase N1	S 916	94% (17.01)	0.9433	5	1	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00013076	Isoform 1 of FGFR1 oncogene partner	S 202	94% (17.01)	0.9433	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0
IPI00032491	Inner nuclear membrane protein Man1	S 259	94% (17.01)	0.9433	6	5	0	2	0	0	0	0	1	2	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00305013	Isoform 2 of FGFR1 oncogene partner	S 182	94% (17.01)	0.9433	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0
IPI00410717	Isoform 1 of Pogo transposable element with ZNF domain	S 1364	94% (17.01)	0.9433	2	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00410718	pogo transposable element with ZNF domain isoform 2	S 1311	94% (17.01)	0.9433	2	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00410719	Isoform 3 of Pogo transposable element with ZNF domain	S 1320	94% (17.01)	0.9433	2	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00445401	Isoform 2 of HECT, UBA and WWE domain-containing protein 1	S 649	94% (17.01)	0.9433	7	10	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	4	0	0	0	0	0
IPI00456919	Isoform 1 of HECT, UBA and WWE domain-containing protein 1	S 649	94% (17.01)	0.9433	7	10	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	4	0	0	0	0	0
IPI00514078	Pogo transposable element with ZNF domain	S 1269	94% (17.01)	0.9433	2	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00514439	pogo transposable element with ZNF domain isoform 1	S 1364	94% (17.01)	0.9433	2	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00514770	Pogo transposable element with ZNF domain	S 1320	94% (17.01)	0.9433	2	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00643153	Isoform 3 of HECT, UBA and WWE domain-containing protein 1	S 649	94% (17.01)	0.9433	7	10	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	4	0	0	0	0	0
IPI00064931	Isoform 2 of E1A-binding protein p400	S 1696	94% (15.28)	0.9432	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00167535	344 kDa protein	S 1734	94% (15.28)	0.9432	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00477005	E1A binding protein p400	S 1695	94% (15.28)	0.9432	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00479168	Isoform 1 of E1A-binding protein p400	S 1732	94% (15.28)	0.9432	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00748478	Isoform 4 of E1A-binding protein p400	S 1617	94% (15.28)	0.9432	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00411635	KIAA0802 protein	S 1566	94% (14.86)	0.9428	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00645814	KIAA1187 protein	S 125	94% (16.66)	0.9428	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00654605	Hypothetical protein RPRC1	S 125	94% (16.66)	0.9428	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00065931	A-kinase anchor protein 13 isoform 1	S 2732	94% (16.95)	0.9426	5	10	1	1	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	2	2	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0
IPI00555610	313 kDa protein	S 2810	94% (16.95)	0.9426	2	4	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00032003	Emerin	S 29	94% (6.36)	0.9426	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 322	94% (19.86)	0.9425	5	7	1	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	1	0	0	0	0
IPI00069817	Isoform 1 of Bromodomain adjacent to zinc finger domain protein 1B	S 708	94% (12.19)	0.9421	4	1	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216695	Isoform 2 of Bromodomain adjacent to zinc finger domain protein 1B	S 704	94% (12.19)	0.9421	4	1	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00377154	bromodomain adjacent to zinc finger domain, 1B	S 708	94% (12.19)	0.9421	4	1	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00065931	A-kinase anchor protein 13 isoform 1	S 2277	94% (6.05)	0.9420	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00289837	PREDICTED: hypothetical protein LOC114800	S 255	94% (6.05)	0.9420	3	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00759546	Isoform 5 of Afadin	S 1274	94% (6.05)	0.9420	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00386189	Isoform 1 of NMDA receptor-regulated protein 1	S 759	94% (6.05)	0.9420	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00177743	251 kDa protein	S 1544	94% (12.23)	0.9417	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00102918	Isoform 2 of ATR-interacting protein	S 221	94% (22.45)	0.9416	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00103517	Isoform 1 of ATR-interacting protein	S 221	94% (22.45)	0.9416	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00413576	Isoform 3 of ATR-interacting protein	S 128	94% (22.45)	0.9416	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413577	Isoform 4 of ATR-interacting protein	S 221	94% (22.45)	0.9416	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00183002	Isoform 1 of Protein phosphatase 1 regulatory subunit 12A	S 871	94% (19.86)	0.9415	2	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00397728	Isoform 2 of Protein phosphatase 1 regulatory subunit 12A	S 871	94% (19.86)	0.9415	2	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00397730	Isoform 4 of Protein phosphatase 1 regulatory subunit 12A	S 812	94% (19.86)	0.9415	2	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413191	Isoform 3 of Protein phosphatase 1 regulatory subunit 12A	S 815	94% (19.86)	0.9415	2	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216219	Isoform Long of Tight junction protein ZO-1	S 275	94% (14.19)	0.9415	6	4	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
IPI00172474	Isoform 2 of Zinc finger protein 91 homolog	S 82	94% (12.31)	0.9414	5	5	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0
IPI00413492	calpastatin isoform b	S 344	94% (12.31)	0.9414	3	2	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00465148	CAST protein	S 293	94% (12.31)	0.9414	3	2	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00477661	Isoform 1 of Zinc finger protein 91 homolog	S 82	94% (12.31)	0.9414	5	5	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0
IPI00021175	Cell division cycle 2-related protein kinase 7	S 249	94% (20.41)	0.9412	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00005978	Splicing factor, arginine/serine-rich 2	S 190	94% (18.04)	0.9410	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00163851	Isoform 1 of Eukaryotic translation initiation factor 2-alpha kinase 4	S 555	94% (16.79)	0.9405	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00456685	Isoform 2 of Eukaryotic translation initiation factor 2-alpha kinase 4	S 555	94% (16.79)	0.9405	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00012074	Heterogeneous nuclear ribonucleoprotein R	S 113	94% (12.23)	0.9403	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00185326	Isoform 1 of JmjC domain-containing histone demethylation protein 1B	S 1029	94% (12.23)	0.9403	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00455183	F-box and leucine-rich repeat protein 10 isoform b	S 960	94% (12.23)	0.9403	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00737594	Isoform 3 of JmjC domain-containing histone demethylation protein 1B	S 1017	94% (12.23)	0.9403	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00747262	Isoform 2 of JmjC domain-containing histone demethylation protein 1B	S 1032	94% (12.23)	0.9403	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 1462	94% (18.00)	0.9402	10	8	1	1	1	0	0	0	2	1	1	0	0	0	2	1	0	0	0	0	3	0	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 1467	94% (18.00)	0.9402	10	8	1	1	1	0	0	0	2	1	1	0	0	0	2	1	0	0	0	0	3	0	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0
IPI00005625	136 kDa protein	S 1039	94% (14.89)	0.9399	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00001466	Echinoderm microtubule-associated protein-like 4	S 146	94% (13.99)	0.9398	8	8	1	1	0	0	0	0	1	3	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	2	2	0	0	0	0
IPI00176706	Splicing factor 45	S 222	94% (17.05)	0.9398	12	8	1	0	1	1	0	0	1	0	0	2	0	0	1	0	2	3	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0
IPI00479589	RNA binding motif protein 17	S 129	94% (17.05)	0.9398	12	8	1	0	1	1	0	0	1	0	0	2	0	0	1	0	2	3	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0
IPI00646846	RNA binding motif protein 17	S 190	94% (17.05)	0.9398	12	8	1	0	1	1	0	0	1	0	0	2	0	0	1	0	2	3	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0
IPI00170594	transcription factor ELYS	S 1522	94% (12.16)	0.9394	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00217957	ELYS transcription factor-like protein TMBS62	S 1549	94% (12.16)	0.9394	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216219	Isoform Long of Tight junction protein ZO-1	S 131	94% (11.93)	0.9393	23	26	5	2	2	0	0	0	4	2	0	0	1	0	3	4	0	0	0	0	3	4	0	1	0	0	3	4	1	1	0	0	3	3	1	2	0	0
IPI00294840	Absent in melanoma 1 protein	S 22	94% (14.97)	0.9392	5	8	1	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0
IPI00297178	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 16	S 107	94% (14.02)	0.9388	2	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00552073	Putative pre-mRNA-splicing factor ATP-dependent RNA helicase DHX16	S 107	94% (14.02)	0.9388	2	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641132	120 kDa protein	S 111	94% (14.02)	0.9388	2	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00337335	Isoform 1 of Myosin-14	S 45	94% (21.41)	0.9387	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00607778	Isoform 4 of Myosin-14	S 45	94% (21.41)	0.9387	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00607818	Isoform 2 of Myosin-14	S 45	94% (21.41)	0.9387	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00006752	Isoform 1 of Mitogen-activated protein kinase kinase kinase kinase 4	S 631	94% (16.64)	0.9385	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00375220	Isoform 1 of Nance-Horan syndrome protein	S 1308	94% (19.86)	0.9384	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00554497	Isoform 3 of Nance-Horan syndrome protein	S 1151	94% (19.86)	0.9384	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00554525	Isoform 2 of Nance-Horan syndrome protein	S 1152	94% (19.86)	0.9384	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00219301	Myristoylated alanine-rich C-kinase substrate	S 134	94% (17.01)	0.9383	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0
IPI00002214	Importin alpha-2 subunit	S 62	94% (14.89)	0.9382	6	9	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	1	2	1	0	1	0	0	1	1	0	1
IPI00291922	Proteasome subunit alpha type 5	S 56	94% (14.89)	0.9382	3	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00303343	Serine arginine-rich pre-mRNA splicing factor SR-A1	S 239	94% (14.89)	0.9382	8	5	2	1	0	0	0	0	2	1	0	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00384028	poly(A) polymerase alpha	S 24	94% (14.89)	0.9382	5	4	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00386700	ladinin 1	S 356	94% (14.89)	0.9382	10	12	0	0	2	1	0	0	1	1	1	1	0	0	1	0	1	1	0	0	0	1	2	1	0	0	1	1	1	0	1	0	0	1	1	1	1	0
IPI00514234	Ladinin 1	S 370	94% (14.89)	0.9382	10	12	0	0	2	1	0	0	1	1	1	1	0	0	1	0	1	1	0	0	0	1	2	1	0	0	1	1	1	0	1	0	0	1	1	1	1	0
IPI00477949	zinc finger protein 262	S 390	94% (7.43)	0.9379	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00513965	Zinc finger protein 262	S 335	94% (7.43)	0.9379	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00016250	Fragile X mental retardation syndrome-related protein 2	S 566	94% (16.63)	0.9375	3	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1542	94% (15.26)	0.9372	9	9	3	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	3	1	0	0	0	0
IPI00305152	SEC31L1 protein	S 527	94% (17.84)	0.9371	5	1	0	1	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00746182	SEC31-like 1 isoform 1	S 527	94% (17.84)	0.9371	5	1	0	1	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00045360	Protein capicua homolog	S 1397	94% (13.98)	0.9369	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00295022	NK-tumor recognition protein	S 1146	94% (5.84)	0.9365	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
IPI00170548	Isoform 1 of ATPase family AAA domain-containing protein 2	S 1200	94% (20.12)	0.9362	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00221394	H/ACA ribonucleoprotein complex subunit 4	S 452	94% (14.63)	0.9355	3	4	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0
IPI00014843	leucine rich repeat containing 16	S 1315	94% (5.81)	0.9354	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746051	Hypothetical protein FLJ20048	S 534	94% (5.81)	0.9354	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00023322	Zinc-finger protein ubi-d4	S 244	94% (19.67)	0.9353	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00555610	313 kDa protein	S 292	94% (11.86)	0.9351	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00166044	Isoform 1 of Regulatory associated protein of mTOR	S 859	93% (16.95)	0.9349	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00144293	Isoform 1 of YTH domain-containing protein 1	S 424	93% (16.36)	0.9347	11	13	1	2	0	1	0	0	1	3	0	0	0	0	1	2	0	0	0	0	1	3	0	0	0	0	1	4	0	0	0	0	1	3	0	0	0	0
IPI00472901	chromodomain helicase DNA binding protein 7	S 1874	93% (16.36)	0.9347	5	4	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00045051	Transcriptional activator protein Pur-beta	S 100	93% (14.63)	0.9345	4	5	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	1	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00003842	Isoform 1 of Microtubule-associated protein 2	S 1155	93% (14.63)	0.9345	8	8	2	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	3	0	0	0	0	0
IPI00010728	203 kDa protein	S 1155	93% (14.63)	0.9345	8	8	2	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	3	0	0	0	0	0
IPI00305305	Signal-induced proliferation-associated protein 1	S 839	93% (14.63)	0.9345	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00398779	plectin 1 isoform 11	S 21	93% (14.63)	0.9345	14	16	4	1	1	0	0	0	1	0	0	0	0	0	4	2	1	0	0	0	2	1	1	1	0	0	2	0	1	1	1	0	3	1	1	1	0	0
IPI00472094	Isoform 3 of Microtubule-associated protein 2	S 1151	93% (14.63)	0.9345	8	8	2	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	3	0	0	0	0	0
IPI00419933	Pleckstrin homology domain containing, family A member 2	S 867	93% (17.86)	0.9343	1	4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0
IPI00643923	PREDICTED: similar to HLA-B associated transcript-2 isoform a isoform 10	S 1358	93% (20.56)	0.9342	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00741537	PREDICTED: hypothetical protein LOC84726 isoform 1	S 1358	93% (20.56)	0.9342	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00394829	hypothetical protein LOC286077	S 903	93% (17.21)	0.9340	2	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00216219	Isoform Long of Tight junction protein ZO-1	S 294	93% (14.55)	0.9334	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00386700	ladinin 1	S 272	93% (12.68)	0.9334	7	11	0	0	2	0	0	0	0	1	1	1	0	0	0	0	1	1	0	0	0	1	2	1	0	0	0	1	0	1	0	0	0	1	2	2	0	0
IPI00514234	Ladinin 1	S 286	93% (12.68)	0.9334	7	11	0	0	2	0	0	0	0	1	1	1	0	0	0	0	1	1	0	0	0	1	2	1	0	0	0	1	0	1	0	0	0	1	2	2	0	0
IPI00748715	septin 9	S 64	93% (11.70)	0.9327	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
IPI00409607	Novel protein	S 611	93% (19.27)	0.9326	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00642366	calmodulin regulated spectrin-associated protein 1-like 1	S 600	93% (19.27)	0.9326	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00418991	CDNA FLJ44035 fis, clone TESTI4028612	S 991	93% (17.01)	0.9323	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00742090	QSER1 protein (Fragment)	S 1230	93% (17.01)	0.9323	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00029822	SMARCA4 isoform 2	S 1618	93% (11.59)	0.9322	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00293426	Probable global transcription activator SNF2L4	S 1586	93% (11.59)	0.9322	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00150057	Isoform 2 of SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily C me	S 283	93% (14.47)	0.9322	2	5	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	1	0	0
IPI00216047	Isoform 1 of SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily C me	S 283	93% (14.47)	0.9322	2	5	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	1	0	0
IPI00514311	CTTNBP2 N-terminal-like protein	S 481	93% (16.36)	0.9322	5	12	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	1	0	0	1	1	1	0	0	0	3	2	0	0	0	0	3	1	0	0	0
IPI00410067	Isoform 1 of Zinc finger CCCH type antiviral protein 1	S 335	93% (20.27)	0.9320	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00410071	Isoform 5 of Zinc finger CCCH type antiviral protein 1	S 335	93% (20.27)	0.9320	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00302238	Protein AATF	S 320	93% (13.49)	0.9318	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00302829	Retinoblastoma-associated protein	S 906	93% (8.22)	0.9316	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00000897	Probable helicase with zinc-finger domain	S 1614	93% (19.79)	0.9314	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00011635	Isoform 2 of Bcl-2-like 13 protein	S 441	93% (11.60)	0.9311	6	3	0	0	1	1	0	0	0	1	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0
IPI00457284	hypothetical protein LOC23131	S 512	93% (11.10)	0.9307	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00011857	Chromatin assembly factor 1 subunit B	S 429	93% (13.98)	0.9304	7	10	1	1	1	0	0	0	2	0	1	0	0	0	0	0	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	0	1	1	2	0	0
IPI00017297	Matrin-3	S 766	93% (17.25)	0.9297	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00305305	Signal-induced proliferation-associated protein 1	S 74	93% (16.00)	0.9294	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00759546	Isoform 5 of Afadin	S 1792	93% (14.02)	0.9292	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00643352	nucleoporin 214kDa	S 433	93% (17.08)	0.9288	4	1	2	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00032064	Isoform A of A-kinase anchor protein 2	S 624	93% (17.18)	0.9286	8	7	1	1	1	0	0	0	1	0	1	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0
IPI00171217	Isoform B of A-kinase anchor protein 2	S 624	93% (17.18)	0.9286	8	7	1	1	1	0	0	0	1	0	1	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0
IPI00465433	A kinase (PRKA) anchor protein 2	S 482	93% (17.18)	0.9286	8	7	1	1	1	0	0	0	1	0	1	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0
IPI00006211	VAMP-associated protein B/C	S 158	93% (15.92)	0.9281	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00030915	Ubiquitin carboxyl-terminal hydrolase 8	S 718	93% (15.92)	0.9281	9	12	2	2	0	0	0	0	0	1	1	0	0	0	1	2	0	0	0	0	2	1	0	0	0	0	2	3	0	0	0	0	2	2	0	0	0	0
IPI00017450	Transcription initiation factor IIF alpha subunit	S 311	93% (6.04)	0.9280	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	2	0	0	0	0	0	1	0	0	0
IPI00260388	PHD finger protein 2	S 537	93% (14.19)	0.9280	10	7	0	1	1	0	0	0	1	2	1	0	0	0	2	1	1	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0
IPI00376493	PHD finger protein 2 isoform b	S 537	93% (14.19)	0.9280	10	7	0	1	1	0	0	0	1	2	1	0	0	0	2	1	1	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0
IPI00477501	121 kDa protein	S 536	93% (14.19)	0.9280	10	7	0	1	1	0	0	0	1	2	1	0	0	0	2	1	1	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0
IPI00013933	Isoform DPI of Desmoplakin	S 2820	93% (17.91)	0.9279	1	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1	1	0	0	0	0	1	1	0	0
IPI00030790	hypothetical protein LOC23247	S 453	93% (14.19)	0.9279	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00103867	Isoform 1 of Rififlylin	S 242	93% (14.19)	0.9279	3	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00297877	CDNA FLJ40166 fis, clone TESTI2016197	S 361	93% (14.19)	0.9279	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00479359	villin 2	S 144	93% (14.19)	0.9279	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00651650	Isoform 2 of Rififlylin	S 242	93% (14.19)	0.9279	3	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0
IPI00746388	Ezrin	S 147	93% (14.19)	0.9279	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00100106	resistance to inhibitors of cholinesterase 8 homolog A	S 442	93% (14.02)	0.9276	3	11	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	4	1	0	0	0	0	5	0	0	0	0	0	1	0	0	0
IPI00163849	Epidermal growth factor receptor substrate 15-like 1	S 255	93% (20.08)	0.9271	11	10	0	2	1	0	0	0	0	3	1	0	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0
IPI00646339	Hypothetical protein DKFZp586A0524	S 255	93% (20.08)	0.9271	11	10	0	2	1	0	0	0	0	3	1	0	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0
IPI00021275	Isoform 1 of Ephrin type-B receptor 2 precursor	S 776	93% (17.08)	0.9270	3	2	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00219421	Isoform 2 of Ephrin type-B receptor 2 precursor	S 776	93% (17.08)	0.9270	3	2	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00252979	Isoform 3 of Ephrin type-B receptor 2 precursor	S 777	93% (17.08)	0.9270	3	2	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00419433	Isoform 1 of Rab11 family-interacting protein 1	S 339	93% (17.08)	0.9270	3	2	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00644408	Ephrin receptor	S 771	93% (17.08)	0.9270	3	2	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00307591	zinc finger protein 609	S 470	93% (12.81)	0.9269	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00034049	Isoform 1 of Regulator of nonsense transcripts 1	S 1107	93% (15.83)	0.9268	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00290950	Hypothetical protein DKFZp686P0251	S 446	93% (15.83)	0.9268	4	2	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00329787	WD repeat domain 20 isoform 3	S 373	93% (15.83)	0.9268	4	2	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00377221	WD repeat domain 20 isoform 1	S 434	93% (15.83)	0.9268	4	2	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00377222	WD repeat domain 20 isoform 4	S 310	93% (15.83)	0.9268	4	2	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00399170	Isoform 2 of Regulator of nonsense transcripts 1	S 1096	93% (15.83)	0.9268	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00294840	Absent in melanoma 1 protein	S 19	93% (14.02)	0.9261	2	5	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00003843	Isoform A1 of Tight junction protein ZO-2	S 430	93% (17.01)	0.9260	10	6	0	1	0	0	0	0	2	1	0	0	0	0	3	3	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0
IPI00021175	Cell division cycle 2-related protein kinase 7	S 383	93% (17.01)	0.9259	9	10	1	2	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	3	1	1	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0
IPI00418234	Methyl-CpG-binding protein 2	S 80	93% (17.01)	0.9259	10	11	0	0	1	1	0	0	0	1	2	1	0	0	0	1	2	1	0	0	0	1	0	1	0	0	0	1	3	1	0	0	0	1	3	0	0	0
IPI00645192	Methyl CpG binding protein 2 isoform B	S 92	93% (17.01)	0.9259	10	11	0	0	1	1	0	0	0	1	2	1	0	0	0	1	2	1	0	0	0	1	0	1	0	0	0	1	3	1	0	0	0	1	3	0	0	0
IPI00216308	Voltage-dependent anion-selective channel protein 1	S 103	93% (21.17)	0.9257	6	3	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00029273	Isoform 1 of Hepatocyte growth factor receptor precursor	S 1000	93% (15.98)	0.9257	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00294528	Isoform 2 of Hepatocyte growth factor receptor precursor	S 1018	93% (15.98)	0.9257	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00021076	Isoform Long of Plakophilin-4	S 776	93% (5.47)	0.9256	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00023109	Chromodomain-helicase-DNA-binding protein 2	S 1364	93% (5.47)	0.9256	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0
IPI00334400	Isoform Short of Plakophilin-4	S 776	93% (5.47)	0.9256	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00398992	Isoform 1 of Chromodomain-helicase-DNA-binding protein 8	S 1716	93% (5.47)	0.9256	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00456681	Isoform 1 of Transcription elongation factor SPT6	S 91	93% (5.47)	0.9256	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00719073	Isoform 2 of Chromodomain-helicase-DNA-binding protein 8	S 1860	93% (5.47)	0.9256	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00747119	plakophilin 4 isoform b	S 776	93% (5.47)	0.9256	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00008868	Microtubule-associated protein 1B	S 1501	93% (15.74)	0.9253	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	3	0	0	0	0	0	0
IPI00374770	microtubule-associated protein 1B isoform 2	S 1375	93% (15.74)	0.9253	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	3	0	0	0	0	0	0
IPI00000156	ligase III, DNA, ATP-dependent isoform beta precursor	S 241	93% (14.02)	0.9253	4	2	0	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00025087	Isoform 1 of Cellular tumor antigen p53	S 315	93% (15.19)	0.9253	10	15	0	0	2	0	1	0	0	0	1	0	1	0	1	1	2	1	0	0	1	0	2	2	0	0	0	1	1	2	1	0	0	1	2	2	0	0
IPI00026952	Plakophilin-3	S 313	93% (14.02)	0.9253	7	6	0	1	1	0	0	0	0	1	1	0	0	0	0	0	3	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	2	1	0	0
IPI00029081	ligase III, DNA, ATP-dependent isoform alpha precursor	S 241	93% (14.02)	0.9253	4	2	0	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	2	0	0	0
IPI00036742	hypothetical protein LOC25962 isoform 1	S 1578	93% (14.02)	0.9253	4	1	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00179890	Isoform B of Ras-GTPase-activating protein-binding protein 2	S 225	93% (14.02)	0.9253	16	15	0	0	4	1	0	0	0	0	3	1	0	0	0	0	7	0	0	0	0	1	4	0	0	0	0	2	3	0	0	0	0	5	0	0	0	0
IPI00219147	Isoform 2 of DNA-binding protein A	S 301	93% (14.02)	0.9253	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00290652	remodeling and spacing factor 1	S 473	93% (14.02)	0.9253	2	6	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	3	0	1	0	0	0	0	0	0	0	0	0
IPI00386208	Gastric-associated differentially-expressed protein YA61P	S 34	93% (14.02)	0.9253	4	3	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00514411	Isoform 2 of Hepatitis B virus X-associated protein	S 432	93% (14.02)	0.9253	2	6	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	3	0	1	0	0	0	0	0	0	0	0	0
IPI00744027	Isoform Beta of DNA ligase 3	S 154	93% (14.02)	0.9253	4	2	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00746306	Isoform Alpha of DNA ligase 3	S 154	93% (14.02)	0.9253	4	2	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00012318	PREDICTED: mitogen-activated protein kinase kinase kinase 1	S 1109	93% (14.02)	0.9253	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00012442	Ras-GTPase-activating protein-binding protein 1	S 232	93% (14.02)	0.9253	14	14	0	1	2	1	0	0	0	1	2	2	0	1	0	1	1	1	0	1	0	1	1	2	0	1	0	1	1	2	0	0	0	1	2	1	0	1
IPI00013444	Zinc finger protein 40	S 1050	93% (14.02)	0.9253	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00014893	Isoform 2 of Nuclear distribution protein nudE homolog 1	S 239	93% (14.02)	0.9253	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0
IPI00019848	Isoform 1 of Host cell factor	S 598	93% (14.02)	0.9253	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00023023	OTTHUMP00000030182	S 24	93% (14.02)	0.9253	3	5	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	2	0	0
IPI00025087	Isoform 1 of Cellular tumor antigen p53	S 313	93% (14.02)	0.9253	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00030790	hypothetical protein LOC23247	S 252	93% (14.02)	0.9253	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00106567	WD-repeat protein 33	S 1279	93% (14.02)	0.9253	5	6	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	2	0	0	0	0	0
IPI00219326	Isoform 2 of Host cell factor	S 529	93% (14.02)	0.9253	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00297877	CDNA FLJ40166 fis, clone TESTI2016197	S 160	93% (14.02)	0.9253	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00375358	Isoform 1 of Replication factor C subunit 1	S 312	93% (14.02)	0.9253	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00375359	Isoform 2 of Replication factor C subunit 1	S 312	93% (14.02)	0.9253	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514329	hypothetical protein LOC29058 isoform 1	S 87	93% (14.02)	0.9253	3	5	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	2	0	0
IPI00641887	Isoform 2 of Protein C20orf30	S 24	93% (14.02)	0.9253	3	5	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	2	0	0
IPI00746691	Isoform 1 of Protein C20orf30	S 87	93% (14.02)	0.9253	3	5	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	2	0	0
IPI00418185	Hypothetical protein FLJ20097	S 229	93% (17.01)	0.9251	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00553067	hypothetical protein LOC55610 isoform a	S 498	93% (17.01)	0.9251	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00216046	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin a1 isoform a	S 119	93% (13.12)	0.9251	2	4	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
IPI00552298	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin a1 isoform b	S 119	93% (13.12)	0.9251	2	4	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
IPI00643568	120 kDa protein	S 119	93% (13.12)	0.9251	2	4	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
IPI00646130	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 1	S 119	93% (13.12)	0.9251	2	4	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
IPI00647510	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 1	S 98	93% (13.12)	0.9251	2	4	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
IPI00296432	Isoform 1 of IWS1-like protein	S 274	93% (11.12)	0.9251	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00001632	hypothetical protein LOC57648	S 979	93% (14.01)	0.9250	3	2	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00002186	Brefeldin A-inhibited guanine nucleotide-exchange protein 2	S 1511	93% (14.01)	0.9250	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00027035	XPA-binding protein 1	S 314	93% (14.01)	0.9250	4	6	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0
IPI00645725	108 kDa protein	S 990	93% (14.01)	0.9250	3	2	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00216219	Isoform Long of Tight junction protein ZO-1	S 899	92% (16.95)	0.9250	6	9	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	3	1	0	0	0	0	2	1	0	0	0	0
IPI00024071	Isoform Long of Heat shock factor protein 1	S 314	92% (17.91)	0.9249	3	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218507	Isoform Short of Heat shock factor protein 1	S 314	92% (17.91)	0.9249	3	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216219	Isoform Long of Tight junction protein ZO-1	S 297	92% (11.20)	0.9248	3	2	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00375441	far upstream element-binding protein	S 630	92% (13.98)	0.9246	5	6	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 2368	92% (13.98)	0.9246	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00016670	FLJ20625 protein	S 98	92% (13.98)	0.9246	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00019004	Translocation protein SEC62	S 356	92% (13.98)	0.9246	5	3	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00169307	Rho GTPase activating protein 21	S 923	92% (13.98)	0.9246	2	5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00175136	RNA binding motif protein 15B	S 109	92% (11.20)	0.9245	3	1	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00619921	Isoform 4 of Death-inducer obliterator 1	S 1312	92% (11.20)	0.9245	3	7	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00032355	Pumilio homolog 1	S 242	92% (19.66)	0.9245	1	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0
IPI00551014	Isoform 1 of Pumilio homolog 1	S 206	92% (19.66)	0.9245	1	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0
IPI00646054	Pumilio homolog 1	S 206	92% (19.66)	0.9245	1	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	S 238	92% (9.34)	0.9241	4	2	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00183794	zinc finger protein 265 isoform 2	S 293	92% (6.59)	0.9236	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00174390	2'-phosphodiesterase	S 220	92% (19.86)	0.9235	2	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00419433	Isoform 1 of Rab11 family-interacting protein 1	S 202	92% (19.86)	0.9235	13	18	0	1	1	1	1	0	0	0	1	1	1	0	1	1	1	2	1	0	1	1	2	2	0	0	0	3	1	2	1	0	1	2	1	1	0	0
IPI00020513	Zyxin	S 338	92% (15.62)	0.9233	2	2	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00396557	ZYX protein	S 288	92% (15.62)	0.9233	2	2	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00376404	fetal Alzheimer antigen isoform 2	S 1300	92% (11.12)	0.9231	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00411886	Nucleolar complex protein 2 homolog	S 56	92% (11.10)	0.9229	13	11	1	3	0	0	0	0	2	3	0	0	0	0	2	2	0	0	0	0	1	2	1	0	0	0	0	3	0	0	0	0	2	2	0	0	0	0
IPI00749302	Hypothetical protein DKFZp686L20116	S 119	92% (11.10)	0.9228	4	3	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	S 165	92% (11.10)	0.9228	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00009949	Proteasome inhibitor PI31 subunit	S 153	92% (11.10)	0.9228	1	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00017227	Ubiquitin domain containing 1 variant	S 164	92% (11.10)	0.9228	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022215	Activity-dependent neuroprotector	S 607	92% (11.10)	0.9228	2	3	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00289334	Isoform 1 of Filamin-B	S 983	92% (11.10)	0.9228	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00290566	T-complex protein 1 subunit alpha	S 544	92% (11.10)	0.9228	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00295502	PREDICTED: widely-interspaced zinc finger motifs isoform 1	S 914	92% (11.10)	0.9228	4	5	0	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0
IPI00303797	B-Raf proto-oncogene serine/threonine-protein kinase	S 447	92% (11.10)	0.9228	6	4	1	1	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0
IPI00306723	CCAAT/enhancer-binding protein zeta	S 34	92% (11.10)	0.9228	3	3	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00328293	Serine₩/arginine repetitive matrix 1	S 761	92% (11.10)	0.9228	2	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00332106	Pre-B-cell leukemia transcription factor interacting protein 1	S 43	92% (11.10)	0.9228	2	2	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00382696	Isoform 2 of Filamin-B	S 983	92% (11.10)	0.9228	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00413611	DNA topoisomerase 1	S 112	92% (11.10)	0.9228	2	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00643918	OTTHUMP00000029957	S 153	92% (11.10)	0.9228	1	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00645060	Pre-B-cell leukemia transcription factor interacting protein 1	S 14	92% (11.10)	0.9228	2	2	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00646377	Isoform 1 of Eukaryotic translation initiation factor 4 gamma 3	S 1156	92% (11.10)	0.9228	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00644591	hypothetical protein LOC64423 isoform 2	S 655	92% (9.11)	0.9226	15	15	3	1	0	0	1	0	2	3	0	0	1	0	1	2	0	0	1	0	1	2	0	0	2	0	2	2	0	1	0	0	2	1	0	0	2	0
IPI00334294	Rac GTPase activating protein	S 357	92% (16.78)	0.9222	2	3	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00298949	Cyclin G-associated kinase	S 829	92% (16.67)	0.9221	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00006987	ATP-dependent RNA helicase DDX24	S 93	92% (11.06)	0.9220	4	4	0	1	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00019835	Isoform 1 of Bcl-2-related proline-rich protein	S 242	92% (11.06)	0.9220	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00029795	Isoform 4 of Nuclear factor 1 C-type	S 323	92% (16.08)	0.9220	19	18	2	0	3	2	0	0	0	1	2	3	0	0	1	1	2	2	0	0	0	0	4	4	0	0	1	0	2	2	0	0	0	1	2	2	0	0
IPI00218035	Isoform 1 of Nuclear factor 1 C-type	S 314	92% (16.08)	0.9220	19	18	2	0	3	2	0	0	0	1	2	3	0	0	1	1	2	2	0	0	0	0	4	4	0	0	1	0	2	2	0	0	0	1	2	2	0	0
IPI00218037	Isoform 2 of Nuclear factor 1 C-type	S 314	92% (16.08)	0.9220	19	18	2	0	3	2	0	0	0	1	2	3	0	0	1	1	2	2	0	0	0	0	4	4	0	0	1	0	2	2	0	0	0	1	2	2	0	0
IPI00218039	Isoform 3 of Nuclear factor 1 C-type	S 290	92% (16.08)	0.9220	19	18	2	0	3	2	0	0	0	1	2	3	0	0	1	1	2	2	0	0	0	0	4	4	0	0	1	0	2	2	0	0	0	1	2	2	0	0
IPI00218041	Isoform 5 of Nuclear factor 1 C-type	S 323	92% (16.08)	0.9220	19	18	2	0	3	2	0	0	0	1	2	3	0	0	1	1	2	2	0	0	0	0	4	4	0	0	1	0	2	2	0	0	0	1	2	2	0	0
IPI00220490	SH3 and multiple ankyrin repeat domains 2 isoform 1	S 509	92% (11.06)	0.9220	4	6	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0
IPI00382733	Transcription repressor	S 658	92% (11.06)	0.9220	4	4	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0
IPI00006213	Pericentriol material 1	S 538	92% (16.76)	0.9218	2	4	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00514311	CTTNBP2 N-terminal-like protein	S 568	92% (16.76)	0.9218	8	6	0	1	1	0	1	0	0	1	1	0	1	0	0	1	0	0	1	0	1	1	1	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0
IPI00005792	poly(A) binding protein, nuclear 1	S 95	92% (7.60)	0.9216	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00414963	Isoform 2 of Polyadenylate-binding protein 2	S 94	92% (7.60)	0.9216	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00187011	Zinc finger CCCH-type domain-containing protein C19orf7	S 1114	92% (17.69)	0.9214	2	3	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
IPI00026089	Splicing factor 3B subunit 1	S 488	92% (11.01)	0.9213	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	S 318	92% (12.81)	0.9207	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00015973	Band 4.1-like protein 2	S 39	92% (6.59)	0.9202	3	6	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0
IPI00074148	dystonin isoform 1	S 237	92% (5.31)	0.9202	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00253323	hypothetical protein LOC65124	S 213	92% (5.31)	0.9202	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010586	TATA element modulatory factor	S 275	92% (5.31)	0.9202	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00017030	Isoform 1 of Myosin-18A	S 1066	92% (5.31)	0.9202	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00554788	Keratin, type I cytoskeletal 18	S 60	92% (13.65)	0.9189	9	2	0	0	1	2	0	1	0	0	0	1	0	0	0	0	0	2	0	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00304875	Isoform 1 of HIRA-interacting protein 3	S 530	92% (12.43)	0.9189	10	2	1	1	1	0	0	0	1	1	1	0	0	0	1	1	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00643014	retinoblastoma-associated factor 600	S 178	92% (13.63)	0.9187	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746934	574 kDa protein	S 178	92% (13.63)	0.9187	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00024425	Putative eukaryotic translation initiation factor 3 subunit	S 1051	92% (13.63)	0.9187	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00385001	Hypothetical protein DKFZp686L1653 (Fragment)	S 495	92% (15.34)	0.9186	10	7	0	0	2	0	1	1	0	0	1	1	0	1	0	0	1	1	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0	1	1	1	0	0
IPI00477040	nucleoporin 188kDa	S 605	92% (15.34)	0.9186	10	7	0	0	2	0	1	1	0	0	1	1	0	1	0	0	1	1	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0	1	1	1	0	0
IPI00335634	Isoform Beta of Paxillin	S 244	92% (18.31)	0.9185	7	11	1	0	2	0	0	0	1	0	2	0	0	0	0	1	0	0	0	0	2	2	2	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0
IPI00006079	Isoform 1 of Bcl-2-associated transcription factor 1	S 183	92% (15.32)	0.9183	7	17	0	2	0	0	0	0	0	2	0	0	0	0	1	1	1	0	0	0	2	3	2	1	0	0	3	2	1	0	0	0	2	1	0	0	0	0
IPI00413671	Isoform 2 of Bcl-2-associated transcription factor 1	S 181	92% (15.32)	0.9183	7	17	0	2	0	0	0	0	0	2	0	0	0	0	1	1	1	0	0	0	2	3	2	1	0	0	3	2	1	0	0	0	2	1	0	0	0	0
IPI00413672	Isoform 3 of Bcl-2-associated transcription factor 1	S 181	92% (15.32)	0.9183	7	17	0	2	0	0	0	0	0	2	0	0	0	0	1	1	1	0	0	0	2	3	2	1	0	0	3	2	1	0	0	0	2	1	0	0	0	0
IPI00398992	Isoform 1 of Chromodomain-helicase-DNA-binding protein 8	S 1145	92% (13.61)	0.9182	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00719073	Isoform 2 of Chromodomain-helicase-DNA-binding protein 8	S 1289	92% (13.61)	0.9182	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	S 341	92% (20.64)	0.9165	4	4	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00384861	Isoform 1 of ARF GTPase-activating protein GIT1	S 362	92% (15.21)	0.9164	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00414481	Isoform 1 of General transcription factor 3C polypeptide 1	S 1869	92% (13.03)	0.9155	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00414482	Isoform 2 of General transcription factor 3C polypeptide 1	S 1889	92% (13.03)	0.9155	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00374268	Isoform 2 of Bromodomain-containing protein 9	S 251	92% (16.03)	0.9153	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00549384	Isoform 1 of Bromodomain-containing protein 9	S 494	92% (16.03)	0.9153	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00759680	Isoform 3 of Bromodomain-containing protein 9	S 472	92% (16.03)	0.9153	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00026970	chromatin-specific transcription elongation factor large subunit	S 982	92% (5.59)	0.9152	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00006038	Isoform 1 of Nuclear pore complex protein Nup98-Nup96 precursor	S 932	91% (16.36)	0.9149	4	5	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0
IPI00007675	Cytoplasmic dynein 1 light intermediate chain 1	S 421	91% (16.36)	0.9149	3	6	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0
IPI00216230	Lamina-associated polypeptide 2 isoform alpha	S 309	91% (19.86)	0.9148	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00398505	Ubiquitin carboxyl-terminal hydrolase 24	S 1141	91% (19.86)	0.9148	3	2	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00304589	182 kDa tankyrase 1-binding protein	S 1476	91% (7.01)	0.9145	4	4	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00152011	PTPL1-associated RhoGAP 1	S 559	91% (13.37)	0.9139	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00411635	KIAA0802 protein	S 536	91% (19.27)	0.9134	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00645814	KIAA1187 protein	S 89	91% (5.31)	0.9130	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00654605	Hypothetical protein RPRC1	S 89	91% (5.31)	0.9130	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00297477	U2 small nuclear ribonucleoprotein A'	S 178	91% (11.10)	0.9127	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0
IPI00217467	Histone H1.4	S 1	91% (5.12)	0.9121	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00024291	Bcl2-antagonist of cell death	S 99	91% (9.38)	0.9118	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00296078	zinc finger transcription factor TRPS1	S 843	91% (5.64)	0.9117	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00005688	Zinc finger protein 185	S 20	91% (14.63)	0.9115	14	16	0	2	1	1	0	0	0	3	1	1	0	0	0	3	2	0	0	0	0	3	0	3	0	0	0	3	2	2	0	0	0	2	0	1	0	0
IPI00023466	Protein AF-17	S 218	91% (12.03)	0.9113	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00759835	112 kDa protein	S 218	91% (12.03)	0.9113	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00409640	LISCH protein isoform 2	S 530	91% (21.99)	0.9111	8	7	1	0	2	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	1	2	0	0	0
IPI00409641	LISCH protein isoform 3	S 462	91% (21.99)	0.9111	8	7	1	0	2	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	1	2	0	0	0
IPI00641640	LISCH protein isoform 1	S 511	91% (21.99)	0.9111	8	7	1	0	2	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	1	2	0	0	0
IPI00294739	SAM domain and HD domain-containing protein 1	S 33	91% (16.15)	0.9110	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00019451	MRG-binding protein	S 195	91% (14.89)	0.9105	6	5	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2	1	0	0
IPI00464999	Hypothetical protein DKFZp686D22141	S 643	91% (14.89)	0.9105	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00184330	DNA replication licensing factor MCM2	S 26	91% (7.21)	0.9105	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00003527	Ezrin-radixin-moesin-binding phosphoprotein 50	S 289	91% (17.08)	0.9104	2	5	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0
IPI00237884	Isoform 1 of A-kinase anchor protein 12	S 643	91% (17.01)	0.9100	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00006079	Isoform 1 of Bcl-2-associated transcription factor 1	S 264	91% (14.86)	0.9099	5	5	0	0	2	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0
IPI00413671	Isoform 2 of Bcl-2-associated transcription factor 1	S 262	91% (14.86)	0.9099	5	5	0	0	2	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0
IPI00413672	Isoform 3 of Bcl-2-associated transcription factor 1	S 262	91% (14.86)	0.9099	5	5	0	0	2	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0
IPI00163505	Isoform 1 of RNA-binding region-containing protein 2	S 341	91% (16.08)	0.9098	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00215801	Isoform 2 of RNA-binding region-containing protein 2	S 341	91% (16.08)	0.9098	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00186194	KARP-1-binding protein	S 357	91% (12.81)	0.9097	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00395444	Calmodulin regulated spectrin-associated protein 1	S 584	91% (16.45)	0.9093	6	6	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00009659	Protein C20orf77	S 166	91% (17.01)	0.9091	3	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00646469	WDR26 protein (Fragment)	S 116	91% (11.10)	0.9085	3	1	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00177743	251 kDa protein	S 1037	91% (14.77)	0.9081	4	8	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	3	1	1	0	0	0
IPI00744888	IMP dehydrogenase/GMP reductase family protein	S 149	91% (13.05)	0.9079	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00745518	Microtubule-associated protein 4 isoform 1 variant (Fragment)	S 817	91% (13.01)	0.9071	6	14	0	1	0	0	0	0	0	0	1	0	0	0	1	1	0	1	1	0	0	2	0	1	0	0	1	1	2	1	0	1	1	1	1	0	1	1
IPI00646058	103 kDa protein	S 375	91% (14.02)	0.9070	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00030274	hypothetical protein LOC84081 isoform 1	S 293	91% (11.67)	0.9066	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00020513	Zyxin	S 203	91% (15.92)	0.9066	25	28	3	2	3	2	0	0	2	2	2	1	0	0	3	1	2	2	0	0	4	2	3	2	0	0	2	1	3	2	0	1	2	2	3	1	0	0
IPI00256861	Isoform 2 of Microtubule-actin crosslinking factor 1, isoforms 1/2/3/5	S 2429	91% (15.92)	0.9066	3	7	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0
IPI00396557	ZYX protein	S 153	91% (15.92)	0.9066	25	28	3	2	3	2	0	0	2	2	2	1	0	0	3	1	2	2	0	0	4	2	3	2	0	0	2	1	3	2	0	1	2	2	3	1	0	0
IPI00432363	Microtubule-actin crosslinking factor 1, isoform 4	S 2931	91% (15.92)	0.9066	3	7	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0
IPI00478739	microfilament and actin filament cross-linker protein isoform b	S 2931	91% (15.92)	0.9066	3	7	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0
IPI00513991	620 kDa protein	S 2429	91% (15.92)	0.9066	3	7	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0
IPI00514468	670 kDa protein	S 2931	91% (15.92)	0.9066	3	7	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0
IPI00550385	Isoform 1 of Microtubule-actin crosslinking factor 1, isoforms 1/2/3/5	S 2373	91% (15.92)	0.9066	3	7	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	S 750	91% (12.96)	0.9061	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00171411	Golgi phosphoprotein 2	S 369	91% (12.68)	0.9058	3	1	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00759659	Isoform 2 of Golgi phosphoprotein 2	S 350	91% (12.68)	0.9058	3	1	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00018963	Isoform 1 of Alpha-parvin	S 19	91% (19.38)	0.9056	3	6	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0
IPI00007334	Isoform 1 of Apoptotic chromatin condensation inducer in the nucleus	S 410	91% (14.63)	0.9054	3	4	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00305152	SEC31L1 protein	S 1049	91% (14.63)	0.9054	2	6	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0
IPI00386808	HDAC7A protein	S 488	91% (14.63)	0.9054	2	3	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
IPI00418482	Histone deacetylase	S 525	91% (14.63)	0.9054	2	3	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
IPI00743474	Isoform 1 of Histone deacetylase 7a	S 486	91% (14.63)	0.9054	2	3	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
IPI00746182	SEC31-like 1 isoform 1	S 1163	91% (14.63)	0.9054	2	6	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0
IPI00749076	Isoform 3 of Histone deacetylase 7a	S 456	91% (14.63)	0.9054	2	3	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00745518	Microtubule-associated protein 4 isoform 1 variant (Fragment)	S 652	91% (18.26)	0.9053	11	19	2	1	0	0	0	0	2	1	0	0	0	0	3	2	0	0	0	0	4	3	0	0	0	0	3	3	0	0	0	0	4	2	0	0	0	0
IPI00022460	Zinc finger protein 592	S 573	91% (14.62)	0.9052	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00017305	Ribosomal protein S6 kinase alpha-1	S 363	90% (10.18)	0.9050	3	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00477982	ribosomal protein S6 kinase, 90kDa, polypeptide 1 isoform b	S 372	90% (10.18)	0.9050	3	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641051	65 kDa protein	S 206	90% (10.18)	0.9050	3	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00178047	Proline and glutamic acid rich nuclear protein isoform	S 513	90% (12.82)	0.9049	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00180266	WW domain-containing transcription regulator protein 1	S 89	90% (15.83)	0.9049	3	6	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	0	2	0	0
IPI00003843	Isoform A1 of Tight junction protein ZO-2	S 398	90% (16.79)	0.9048	3	3	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
IPI00218648	Isoform III of AT-rich interactive domain-containing protein 4A	S 557	90% (12.51)	0.9048	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00329115	Isoform 1 of Protein C10orf47	S 311	90% (10.17)	0.9047	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	1	0	1	0	0	2	1	0	0	0
IPI00104050	Thyroid hormone receptor-associated protein 3	S 624	90% (10.17)	0.9047	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0
IPI00216546	Isoform 2 of Probable palmitoyltransferase ZDHHC5	S 501	90% (14.58)	0.9045	9	9	1	1	0	1	0	0	1	0	0	1	0	0	1	1	0	1	1	0	1	0	1	1	0	0	1	0	0	1	0	0	1	1	1	1	0	0
IPI00328272	Isoform 1 of Probable palmitoyltransferase ZDHHC5	S 554	90% (14.58)	0.9045	9	9	1	1	0	1	0	0	1	0	0	1	0	0	1	1	0	1	1	0	1	0	1	1	0	0	1	0	0	1	0	0	1	1	1	1	0	0
IPI00304589	182 kDa tankyrase 1-binding protein	S 1552	90% (16.76)	0.9042	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0
IPI00181586	PQ loop repeat containing 1	S 110	90% (10.14)	0.9040	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00645814	KIAA1187 protein	S 86	90% (10.14)	0.9040	6	7	0	0	1	1	0	0	0	1	0	1	0	0	0	1	0	1	0	0	1	2	0	1	0	0	0	0	0	0	0	1	1	0	1	0	0	0
IPI00654605	Hypothetical protein RPRC1	S 86	90% (10.14)	0.9040	6	7	0	0	1	1	0	0	0	1	0	1	0	0	0	1	0	1	0	0	1	2	0	1	0	0	0	0	0	0	0	1	1	0	1	0	0	0
IPI00306406	Serine/threonine-protein kinase RIO2	S 335	90% (5.08)	0.9040	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219841	DNA ligase 1	S 201	90% (12.81)	0.9031	2	4	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 1067	90% (4.85)	0.9031	5	6	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	2	0	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 1072	90% (4.85)	0.9031	5	6	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	2	0	0	0	0	0	0
IPI00001466	Echinoderm microtubule-associated protein-like 4	S 144	90% (12.81)	0.9031	8	6	1	1	0	0	0	0	1	1	0	0	0	0	1	3	0	0	0	0	2	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
IPI00008144	Isoform 1 of Neurabin-1	S 840	90% (12.81)	0.9031	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 1759	90% (12.81)	0.9031	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 1764	90% (12.81)	0.9031	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00744288	Isoform 5 of C-jun-amino-terminal kinase-interacting protein 4	S 799	90% (12.81)	0.9031	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00410693	Isoform 1 of Plasminogen activator inhibitor 1 RNA-binding protein	S 328	90% (10.09)	0.9030	3	1	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00470497	Isoform 2 of Plasminogen activator inhibitor 1 RNA-binding protein	S 322	90% (10.09)	0.9030	3	1	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00102752	Isoform 1 of Putative RNA-binding protein 15	S 109	90% (16.66)	0.9023	2	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00220716	Isoform 2 of Putative RNA-binding protein 15	S 109	90% (16.66)	0.9023	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00220717	Isoform 3 of Putative RNA-binding protein 15	S 109	90% (16.66)	0.9023	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00438229	Isoform 1 of Transcription intermediary factor 1-beta	S 681	90% (14.47)	0.9022	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00304589	182 kDa tankyrase 1-binding protein	S 987	90% (14.47)	0.9022	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00027378	UBA/UBX 33.3 kDa protein	S 199	90% (16.64)	0.9018	5	8	0	0	0	1	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	4	0	0	0	0	0	2	0	0	0	0	2	0	0	0
IPI00396563	2B28 protein	S 199	90% (16.64)	0.9018	5	8	0	0	0	1	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	4	0	0	0	0	0	2	0	0	0	0	2	0	0	0
IPI00218729	Isoform 2 of Disks large homolog 1	S 709	90% (16.64)	0.9018	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
IPI00552511	Isoform 4 of Disks large homolog 1	S 676	90% (16.64)	0.9018	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00304692	Heterogeneous nuclear ribonucleoprotein G	S 88	90% (10.03)	0.9017	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00023780	Isoform 2 of DnaJ homolog subfamily C member 5	S 10	90% (15.65)	0.9013	40	31	1	1	2	4	3	1	2	1	2	6	4	1	1	2	2	3	3	1	1	1	1	6	1	1	2	2	1	4	2	1	1	2	2	1	1	1
IPI00402231	Isoform 1 of DnaJ homolog subfamily C member 5	S 10	90% (15.65)	0.9013	40	31	1	1	2	4	3	1	2	1	2	6	4	1	1	2	2	3	3	1	1	1	1	6	1	1	2	2	1	4	2	1	1	1	2	2	1	1
IPI00644591	hypothetical protein LOC64423 isoform 2	S 614	90% (15.65)	0.9013	20	18	5	3	0	0	0	0	4	3	0	0	0	0	2	3	0	0	0	0	5	4	0	0	0	0	1	2	0	0	0	0	2	4	0	0	0	0
IPI00012149	U3 small nucleolar ribonucleoprotein protein MPP10	S 171	90% (11.54)	0.9011	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00045360	Protein capicua homolog	S 1409	90% (8.14)	0.9007	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00064931	Isoform 2 of E1A-binding protein p400	S 905	90% (22.01)	0.9003	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00167535	344 kDa protein	S 943	90% (22.01)	0.9003	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00477005	E1A binding protein p400	S 904	90% (22.01)	0.9003	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00479168	Isoform 1 of E1A-binding protein p400	S 941	90% (22.01)	0.9003	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00748478	Isoform 4 of E1A-binding protein p400	S 907	90% (22.01)	0.9003	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00394829	hypothetical protein LOC286077	S 8	90% (11.10)	0.9003	7	5	1	1	0	0	0	0	2	2	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00328905	185 kDa protein	S 503	90% (11.72)	0.9001	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514068	Ras GTPase-activating-like protein IQGAP3	S 503	90% (11.72)	0.9001	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746773	IQ motif containing GTPase activating protein 3	S 460	90% (11.72)	0.9001	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00000192	Isoform F of SON protein	S 1766	90% (17.36)	0.8992	4	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00217930	Isoform J of SON protein	S 1766	90% (17.36)	0.8992	4	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00218617	SON protein	S 1728	90% (17.36)	0.8992	4	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00218619	Isoform C of SON protein	S 1766	90% (17.36)	0.8992	4	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00218620	Isoform D of SON protein	S 1766	90% (17.36)	0.8992	4	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00218622	Isoform G of SON protein	S 1726	90% (17.36)	0.8992	4	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00218624	Isoform I of SON protein	S 1806	90% (17.36)	0.8992	4	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00382737	SON DNA-binding protein isoform G	S 1726	90% (17.36)	0.8992	4	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00401958	SON DNA-binding protein isoform C	S 1766	90% (17.36)	0.8992	4	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00010241	WW domain-containing adapter with a coiled-coil region, isoform 1	S 511	90% (14.33)	0.8992	3	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0
IPI00087375	WW domain-containing adapter with a coiled-coil region isoform 3	S 408	90% (14.33)	0.8992	3	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0
IPI00256605	WW domain-containing adapter with a coiled-coil region isoform 1	S 511	90% (14.33)	0.8992	3	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0
IPI00478665	WW domain-containing adapter with a coiled-coil region isoform 2	S 466	90% (14.33)	0.8992	3	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0
IPI00165970	Isoform 1 of DGCR8 protein	S 271	90% (14.52)	0.8991	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00549380	Isoform 3 of DGCR8 protein	S 271	90% (14.52)	0.8991	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00029702	Isoform 1 of Protein tyrosine kinase 2 beta	S 143	90% (14.00)	0.8987	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00216435	Isoform 2 of Protein tyrosine kinase 2 beta	S 143	90% (14.00)	0.8987	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00477825	Isoform 1 of Mesoderm induction early response protein 1	S 507	90% (14.27)	0.8980	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00478280	Isoform 10 of Mesoderm induction early response protein 1	S 500	90% (14.27)	0.8980	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00479032	Isoform 3 of Mesoderm induction early response protein 1	S 483	90% (14.27)	0.8980	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00655630	Isoform 8 of Mesoderm induction early response protein 1	S 504	90% (14.27)	0.8980	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00655783	Mesoderm induction early response 1	S 536	90% (14.27)	0.8980	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00656089	Isoform 7 of Mesoderm induction early response protein 1	S 456	90% (14.27)	0.8980	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00158615	Isoform 1 of THO complex subunit 2	S 1140	90% (19.86)	0.8978	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00185027	Isoform 1 of Arginine-glutamic acid dipeptide repeats protein	S 56	90% (15.12)	0.8977	5	3	1	1	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 864	90% (12.19)	0.8976	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00302238	Protein AATF	S 321	90% (11.74)	0.8972	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00217541	ATP-dependent RNA helicase DDX51	S 103	90% (16.41)	0.8971	3	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00329573	Isoform Long of Collagen alpha-1(XII) chain precursor	S 1790	90% (14.52)	0.8969	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641961	Collagen, type XII, alpha 1	S 1790	90% (14.52)	0.8969	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00745263	collagen, type XII, alpha 1 long isoform precursor	S 1790	90% (14.52)	0.8969	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00419433	Isoform 1 of Rab11 family-interacting protein 1	S 435	90% (12.52)	0.8967	12	12	1	2	0	1	0	0	1	1	1	1	0	0	1	1	1	1	0	0	0	1	2	1	0	0	0	2	1	1	0	0	0	2	1	1	0	0
IPI00645814	KIAA1187 protein	S 113	90% (14.63)	0.8965	25	26	3	2	1	3	0	0	3	1	1	4	0	0	2	1	1	3	0	0	5	3	0	2	0	0	2	2	2	2	0	0	4	1	0	3	0	0
IPI00654605	Hypothetical protein RPRC1	S 113	90% (14.63)	0.8965	25	26	3	2	1	3	0	0	3	1	1	4	0	0	2	1	1	3	0	0	5	3	0	2	0	0	2	2	2	2	0	0	4	1	0	3	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1502	90% (5.31)	0.8964	2	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00022460	Zinc finger protein 592	S 1264	90% (14.19)	0.8963	6	5	1	0	0	0	0	0	1	0	0	0	0	0	2	1	0	1	0	0	0	0	0	0	0	0	3	0	0	0	0	0	1	1	0	0	0	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	S 3036	90% (14.19)	0.8961	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00043622	Isoform 1 of FERM domain-containing protein 6	S 542	90% (14.19)	0.8961	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00184707	Isoform 2 of FERM domain-containing protein 6	S 534	90% (14.19)	0.8961	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00221325	Ran-binding protein 2	S 2626	90% (14.19)	0.8961	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00337346	Isoform 3 of FERM domain-containing protein 6	S 184	90% (14.19)	0.8961	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00374054	Isoform 2 of Protein enabled homolog	S 508	90% (14.19)	0.8961	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	1	0	0	0
IPI00646954	89 kDa protein	S 755	90% (14.19)	0.8961	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	1	0	0	0
IPI00005809	Serum deprivation-response protein	S 288	90% (14.02)	0.8961	5	1	0	0	1	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00454910	Serine/threonine-protein kinase MRCK gamma	S 1492	90% (4.67)	0.8958	2	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00165970	Isoform 1 of DGCR8 protein	S 373	90% (14.19)	0.8958	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00549380	Isoform 3 of DGCR8 protein	S 373	90% (14.19)	0.8958	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00448751	Hypothetical protein DKFZp686A0439	S 494	89% (17.08)	0.8945	1	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0
IPI00045914	Msx2-interacting protein	S 190	89% (4.64)	0.8943	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00015924	Isoform 1 of Tuftelin-interacting protein 11	S 59	89% (14.82)	0.8936	6	2	1	0	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00015952	Eukaryotic translation initiation factor 4 gamma 2	S 395	89% (12.35)	0.8931	21	20	1	4	2	0	0	0	1	3	1	3	0	0	2	3	1	0	0	0	1	3	1	1	0	0	2	4	1	1	0	0	4	1	1	0	0	0
IPI00022348	Isoform PML-1 of Probable transcription factor PML	S 530	89% (12.48)	0.8928	2	4	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
IPI00220453	Isoform PML-X of Probable transcription factor PML	S 530	89% (12.48)	0.8928	2	4	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
IPI00303999	Isoform PML-2 of Probable transcription factor PML	S 530	89% (12.48)	0.8928	2	4	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
IPI00304000	Isoform PML-3 of Probable transcription factor PML	S 530	89% (12.48)	0.8928	2	4	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
IPI00332110	promyelocytic leukemia protein isoform 9	S 530	89% (12.48)	0.8928	2	4	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	S 2151	89% (14.02)	0.8926	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00004671	Golgin subfamily B member 1	S 2872	89% (14.02)	0.8926	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00009544	RalA-binding protein 1	S 28	89% (14.02)	0.8926	6	8	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0
IPI00043978	Isoform 1 of Amyotrophic lateral sclerosis 2 chromosome region candidate gene 19 protein	S 746	89% (14.02)	0.8926	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00075719	amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 19 isoform b	S 685	89% (14.02)	0.8926	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00102575	ATP(GTP)-binding protein	S 816	89% (14.02)	0.8926	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00218753	Isoform 3 of DNA topoisomerase 2-alpha	S 1505	89% (14.02)	0.8926	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218754	Isoform 4 of DNA topoisomerase 2-alpha	S 1550	89% (14.02)	0.8926	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00386211	family with sequence similarity 44, member A	S 538	89% (14.02)	0.8926	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00409695	amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 19 isoform a	S 747	89% (14.02)	0.8926	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00414101	Isoform 2 of DNA topoisomerase 2-alpha	S 1496	89% (14.02)	0.8926	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00478232	Isoform 1 of DNA topoisomerase 2-alpha	S 1506	89% (14.02)	0.8926	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219841	DNA ligase 1	S 911	89% (12.25)	0.8925	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00004472	Isoform 1 of Serine/threonine-protein kinase WNK1	S 167	89% (9.63)	0.8922	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00397590	Isoform 2 of Serine/threonine-protein kinase WNK1	S 167	89% (9.63)	0.8922	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00747266	226 kDa protein	S 167	89% (9.63)	0.8922	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00748509	251 kDa protein	S 167	89% (9.63)	0.8922	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00023856	Peregrin	S 926	89% (17.16)	0.8921	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00456620	bromodomain and PHD finger-containing protein 1 isoform 1	S 932	89% (17.16)	0.8921	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00009032	Lupus La protein	S 94	89% (12.31)	0.8920	2	3	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0
IPI00024971	Oxysterol-binding protein 1	S 240	89% (12.31)	0.8920	3	4	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00031519	Isoform 1 of DNA	S 205	89% (12.31)	0.8920	3	3	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00303797	B-Raf proto-oncogene serine/threonine-protein kinase	S 365	89% (12.31)	0.8920	7	4	0	1	2	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00470483	WD repeat domain 62	S 1228	89% (12.31)	0.8920	5	5	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00719759	Akt substrate AS250	S 821	89% (12.31)	0.8920	8	2	4	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00009471	WD-repeat protein 3	S 241	89% (12.31)	0.8920	4	4	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00021537	Isoform 1 of Opioid growth factor receptor	S 484	89% (13.99)	0.8919	4	4	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
IPI00738937	PREDICTED: hypothetical protein LOC57479 isoform 1	S 1121	89% (13.99)	0.8919	1	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00745321	PREDICTED: similar to CG17233-PA, isoform A isoform 5	S 1112	89% (13.99)	0.8919	1	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00384861	Isoform 1 of ARF GTPase-activating protein GIT1	S 592	89% (13.98)	0.8916	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00302592	Filamin A, alpha	S 2172	89% (13.98)	0.8916	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00333541	Filamin-A	S 2179	89% (13.98)	0.8916	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00556594	Isoform 1 of Zinc finger CCHC domain-containing protein 8	S 656	89% (13.98)	0.8916	2	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00643014	retinoblastoma-associated factor 600	S 2719	89% (9.15)	0.8914	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00746934	574 kDa protein	S 2720	89% (9.15)	0.8914	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00643014	retinoblastoma-associated factor 600	S 2722	89% (5.47)	0.8911	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746934	574 kDa protein	S 2723	89% (5.47)	0.8911	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00018914	Tyrosine-protein phosphatase non-receptor type 14	S 594	89% (11.12)	0.8906	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00001735	nuclear receptor co-repressor 2	S 1546	89% (9.55)	0.8903	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00002054	132 kDa protein	S 540	89% (12.23)	0.8902	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00001735	nuclear receptor co-repressor 2	S 2233	89% (13.89)	0.8896	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00294742	HDCMA18P protein	S 299	89% (9.34)	0.8892	2	12	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	2	0	0	0	0	1	1	0	0	0	0	3	3	0	0	0
IPI00398992	Isoform 1 of Chromodomain-helicase-DNA-binding protein 8	S 271	89% (11.06)	0.8888	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00719073	Isoform 2 of Chromodomain-helicase-DNA-binding protein 8	S 415	89% (11.06)	0.8888	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00009505	Isoform 1 of Beta-2-syntrophin	S 222	89% (16.76)	0.8873	1	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00409640	LISCH protein isoform 2	S 332	89% (16.76)	0.8873	3	5	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0
IPI00409641	LISCH protein isoform 3	S 264	89% (16.76)	0.8873	3	5	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0
IPI00641640	LISCH protein isoform 1	S 313	89% (16.76)	0.8873	3	5	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0
IPI00398012	Fragile site-associated protein	S 1805	89% (9.42)	0.8872	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00028888	Isoform 1 of Heterogeneous nuclear ribonucleoprotein D0	S 83	89% (11.95)	0.8872	19	24	0	1	2	2	1	0	1	1	0	3	1	0	1	1	0	5	0	0	0	1	3	4	1	0	1	1	4	3	0	0	1	1	2	2	0	0
IPI00220684	Isoform 3 of Heterogeneous nuclear ribonucleoprotein D0	S 83	89% (11.95)	0.8872	19	24	0	1	2	2	1	0	1	1	0	3	1	0	1	1	0	5	0	0	0	1	3	4	1	0	1	1	4	3	0	0	1	1	2	2	0	0
IPI00026320	Ubiquitin-protein ligase EDD1	S 1308	89% (9.42)	0.8872	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00410693	Isoform 1 of Plasminogen activator inhibitor 1 RNA-binding protein	S 330	89% (9.42)	0.8872	7	11	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	2	2	0	0	0	0	1	2	0	0	0	0	2	2	0	0
IPI00470497	Isoform 2 of Plasminogen activator inhibitor 1 RNA-binding protein	S 324	89% (9.42)	0.8872	7	11	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	2	2	0	0	0	0	1	2	0	0	0	0	2	2	0	0
IPI00741894	PREDICTED: similar to E3 ubiquitin protein ligase, HECT domain containing, 1	S 1234	89% (9.42)	0.8872	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00175146	hypothetical protein LOC196441	S 809	89% (15.01)	0.8871	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00000077	Ribonuclease H1	S 74	89% (12.09)	0.8870	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00100041	Isoform 1 of Lethal(3)malignant brain tumor-like 2 protein	S 683	89% (8.38)	0.8869	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00307733	huntingtin interacting protein B	S 1395	89% (11.06)	0.8866	2	2	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
IPI00014456	Striatin	S 137	89% (16.21)	0.8865	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00654594	STRN protein	S 137	89% (16.21)	0.8865	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00170786	WW domain-binding protein 11	S 364	89% (4.67)	0.8864	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00303343	Serine arginine-rich pre-mRNA splicing factor SR-A1	S 453	89% (9.39)	0.8864	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00027272	breast cancer 1, early onset isoform BRCA1-delta14-17	S 1191	89% (11.86)	0.8863	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00027273	breast cancer 1, early onset isoform BRCA1-delta14-18	S 1191	89% (11.86)	0.8863	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00218982	Breast cancer type 1 susceptibility protein	S 1191	89% (11.86)	0.8863	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00297234	breast cancer 1, early onset isoform BRCA1-delta9-10	S 1150	89% (11.86)	0.8863	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00295457	myosin phosphatase-Rho interacting protein isoform 1	S 1016	89% (9.38)	0.8861	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00178072	Cytospin-A	S 832	89% (15.92)	0.8860	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00216540	Isoform 4 of Protein kinase C-binding protein 1	S 119	89% (13.99)	0.8857	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00418316	RACK7 isoform e	S 515	89% (13.99)	0.8857	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00640598	protein kinase C binding protein 1 isoform a	S 515	89% (13.99)	0.8857	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00718938	Isoform 6 of Protein kinase C-binding protein 1	S 350	89% (13.99)	0.8857	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00719682	Isoform 7 of Protein kinase C-binding protein 1	S 514	89% (13.99)	0.8857	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00740207	RACK7 isoform j	S 490	89% (13.99)	0.8857	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00741204	RACK7 isoform f	S 490	89% (13.99)	0.8857	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00748579	RACK7 isoform d	S 490	89% (13.99)	0.8857	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00100041	Isoform 1 of Lethal(3)malignant brain tumor-like 2 protein	S 688	89% (8.34)	0.8857	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00256861	Isoform 2 of Microtubule-actin crosslinking factor 1, isoforms 1/2/3/5	S 1846	89% (9.34)	0.8855	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00432363	Microtubule-actin crosslinking factor 1, isoform 4	S 2348	89% (9.34)	0.8855	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00478739	microfilament and actin filament cross-linker protein isoform b	S 2348	89% (9.34)	0.8855	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00513991	620 kDa protein	S 1846	89% (9.34)	0.8855	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514468	670 kDa protein	S 2348	89% (9.34)	0.8855	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00550385	Isoform 1 of Microtubule-actin crosslinking factor 1, isoforms 1/2/3/5	S 1811	89% (9.34)	0.8855	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00016580	Isoform 1 of Protein C20orf172	S 57	89% (4.44)	0.8853	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00641008	OTTHUMP00000030876	S 57	89% (4.44)	0.8853	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00643014	retinoblastoma-associated factor 600	S 619	89% (4.44)	0.8853	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00644809	C20orf172 protein	S 41	89% (4.44)	0.8853	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00645304	OTTHUMP00000030877	S 41	89% (4.44)	0.8853	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00746934	574 kDa protein	S 619	89% (4.44)	0.8853	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00168459	Isoform 2 of Pleckstrin homology-like domain family B member 2	S 937	89% (16.66)	0.8851	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00410259	Isoform 1 of Pleckstrin homology-like domain family B member 2	S 980	89% (16.66)	0.8851	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00657763	Isoform 3 of Pleckstrin homology-like domain family B member 2	S 964	89% (16.66)	0.8851	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00004671	Golgin subfamily B member 1	S 138	88% (9.34)	0.8850	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00007935	PDZ and LIM domain protein 5	S 110	88% (9.34)	0.8850	3	5	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	1	0	0	0
IPI00028122	Isoform 1 of PC4 and SFRS1-interacting protein	S 106	88% (9.34)	0.8850	14	15	0	2	1	1	1	0	0	0	2	2	1	0	0	1	1	1	1	0	0	2	1	2	1	0	0	1	0	2	1	0	0	2	1	1	1	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 639	88% (9.34)	0.8850	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00054042	Isoform 1 of General transcription factor II-I	S 412	88% (9.34)	0.8850	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00217449	Isoform 3 of General transcription factor II-I	S 392	88% (9.34)	0.8850	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00217450	Isoform 4 of General transcription factor II-I	S 391	88% (9.34)	0.8850	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00291800	Isoform 1 of Eukaryotic translation initiation factor 4E transporter	S 78	88% (9.34)	0.8850	3	5	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0
IPI00293242	Isoform 2 of General transcription factor II-I	S 371	88% (9.34)	0.8850	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00333215	Isoform 1 of Transcription elongation factor A protein 1	S 97	88% (9.34)	0.8850	4	1	0	0	1	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00373869	Homeodomain-like containing protein	S 36	88% (9.34)	0.8850	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00414095	Eukaryotic translation initiation factor 4E nuclear import factor 1	S 78	88% (9.34)	0.8850	3	5	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0
IPI00513803	Mitogen-activated protein kinase kinase kinase 2	S 164	88% (9.34)	0.8850	7	7	0	0	2	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0
IPI00550518	Isoform 2 of Eukaryotic translation initiation factor 4E transporter	S 78	88% (9.34)	0.8850	3	5	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0
IPI00645199	Eukaryotic translation initiation factor 4E nuclear import factor 1	S 78	88% (9.34)	0.8850	3	5	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 644	88% (9.34)	0.8850	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00401282	PREDICTED: hypothetical protein LOC23307	S 1097	88% (16.63)	0.8848	12	7	4	0	0	0	0	0	3	1	0	0	0	0	3	1	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0
IPI00739371	PREDICTED: similar to Golgi autoantigen, golgin subfamily A member 6	S 1102	88% (16.63)	0.8848	12	7	4	0	0	0	0	0	3	1	0	0	0	0	3	1	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0
IPI00183794	zinc finger protein 265 isoform 2	S 292	88% (5.08)	0.8845	2	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00297859	Isoform 1 of Myeloid/lymphoid or mixed-lineage leukemia protein 2	S 2884	88% (4.49)	0.8843	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00377244	Isoform 2 of Myeloid/lymphoid or mixed-lineage leukemia protein 2	S 2579	88% (4.49)	0.8843	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00377245	Isoform 3 of Myeloid/lymphoid or mixed-lineage leukemia protein 2	S 2887	88% (4.49)	0.8843	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00480107	565 kDa protein	S 2889	88% (4.49)	0.8843	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220835	Protein transport protein Sec61 beta subunit	S 16	88% (15.83)	0.8841	20	12	1	1	1	1	2	2	1	1	0	2	1	0	0	2	0	2	3	0	0	0	0	1	2	0	1	1	0	1	1	0	1	1	0	1	1	1
IPI00032597	RNA-binding motif protein, X-linked 2	S 187	88% (11.95)	0.8836	7	8	0	0	0	1	0	0	0	0	2	1	1	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	3	2	0	0	0	0	1	0	0	0
IPI00165138	GRIP and coiled-coil domain-containing protein 1	S 620	88% (17.23)	0.8828	2	2	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00028065	Cytoplasmic protein NCK1	S 85	88% (11.87)	0.8817	2	5	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0
IPI00292009	palladin	S 882	88% (7.67)	0.8811	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00337530	Isoform 1 of RalBP1-associated Eps domain-containing protein 1	S 657	88% (18.91)	0.8808	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00337532	Isoform 3 of RalBP1-associated Eps domain-containing protein 1	S 656	88% (18.91)	0.8808	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00306195	CDNA FLJ30949 fis, clone HCASM1000021, weakly similar to Plasmodium berghei strain NYU2 merozoite	S 231	88% (8.22)	0.8804	7	6	0	0	0	3	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	2	0	0	0
IPI00549786	AKT1S1 protein	S 211	88% (8.22)	0.8804	7	6	0	0	0	3	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	2	0	0	0
IPI00296432	Isoform 1 of IWS1-like protein	S 69	88% (10.24)	0.8802	3	2	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00295502	PREDICTED: widely-interspaced zinc finger motifs isoform 1	S 928	88% (9.12)	0.8790	1	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	S 1208	88% (9.12)	0.8790	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00465287	ras responsive element binding protein 1 isoform 2	S 1320	88% (9.12)	0.8790	1	4	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00465288	ras responsive element binding protein 1 isoform 1	S 1375	88% (9.12)	0.8790	1	4	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00295004	Isoform 1 of Alsin	S 656	88% (4.32)	0.8790	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00419979	p21-activated kinase 2	S 141	88% (9.11)	0.8788	5	3	0	1	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00102752	Isoform 1 of Putative RNA-binding protein 15	S 765	88% (14.19)	0.8783	1	4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00220716	Isoform 2 of Putative RNA-binding protein 15	S 765	88% (14.19)	0.8783	1	4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00220717	Isoform 3 of Putative RNA-binding protein 15	S 765	88% (14.19)	0.8783	1	4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00306195	CDNA FLJ30949 fis, clone HCASM1000021, weakly similar to Plasmodium berghei strain NYU2 merozoite	S 232	88% (8.14)	0.8782	3	2	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
IPI00549786	AKT1S1 protein	S 212	88% (8.14)	0.8782	3	2	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
IPI00744888	IMP dehydrogenase/GMP reductase family protein	S 16	88% (10.83)	0.8782	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00177743	251 kDa protein	S 40	88% (14.63)	0.8780	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00290950	Hypothetical protein DKFZp686P0251	S 369	88% (14.63)	0.8780	2	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00300562	Ras-related protein Rab-3B	S 188	88% (14.63)	0.8780	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00329787	WD repeat domain 20 isoform 3	S 296	88% (14.63)	0.8780	2	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00377221	WD repeat domain 20 isoform 1	S 357	88% (14.63)	0.8780	2	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00377222	WD repeat domain 20 isoform 4	S 233	88% (14.63)	0.8780	2	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00554788	Keratin, type I cytoskeletal 18	S 42	88% (14.63)	0.8780	5	2	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00658152	tensin-like SH2 domain containing 1	S 332	88% (14.63)	0.8780	13	14	2	1	1	1	0	0	1	1	1	1	0	0	1	1	1	1	0	0	1	2	1	1	0	0	1	1	1	1	0	0	2	1	1	1	0	0
IPI00759836	Tensin	S 434	88% (14.63)	0.8780	13	14	2	1	1	1	0	0	1	1	1	1	0	0	1	1	1	1	0	0	1	2	1	1	0	0	1	1	1	1	0	0	2	1	1	1	0	0
IPI00409671	DEAD box polypeptide 42 protein	S 104	88% (9.06)	0.8776	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00171475	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 interacting protein	S 366	88% (11.70)	0.8773	2	6	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0
IPI00250716	Isoform B of Bromodomain and WD-repeat domain-containing protein 1	S 145	88% (4.27)	0.8771	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00289944	Isoform A of Bromodomain and WD-repeat domain-containing protein 1	S 145	88% (4.27)	0.8771	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746752	Isoform C of Bromodomain and WD-repeat domain-containing protein 1	S 145	88% (4.27)	0.8771	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00221106	splicing factor 3B subunit 2	S 302	88% (13.91)	0.8769	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00011593	Fos-related antigen 2	S 230	88% (13.37)	0.8769	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220349	eukaryotic translation initiation factor 2C, 2	S 824	88% (14.58)	0.8768	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00745433	97 kDa protein	S 826	88% (14.58)	0.8768	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00015952	Eukaryotic translation initiation factor 4 gamma 2	S 381	88% (11.67)	0.8767	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
IPI00745557	ankyrin repeat domain protein 17 isoform a	S 2050	88% (17.87)	0.8761	3	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00221325	Ran-binding protein 2	S 781	88% (11.10)	0.8755	3	5	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0
IPI00140420	Staphylococcal nuclease domain-containing protein 1	S 426	88% (14.52)	0.8753	4	5	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0
IPI00289491	Protein CASC3	S 363	87% (8.97)	0.8750	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00024970	Inner centromere protein	S 836	87% (7.26)	0.8747	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00759472	inner centromere protein antigens 135/155kDa isoform 2	S 827	87% (7.26)	0.8747	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00409671	DEAD box polypeptide 42 protein	S 109	87% (8.96)	0.8747	2	4	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	S 380	87% (15.42)	0.8738	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00303722	Hypothetical protein FLJ14668	S 43	87% (6.22)	0.8729	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00295457	myosin phosphatase-Rho interacting protein isoform 1	S 292	87% (11.01)	0.8725	8	5	0	2	0	0	0	0	0	2	0	0	0	0	2	2	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00384202	Isoform 1 of Probable JmjC domain-containing histone demethylation protein 2C	S 2005	87% (8.87)	0.8721	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00472044	Isoform 1 of GTPase-activating Rap/Ran-GAP domain-like 1	S 820	87% (8.87)	0.8721	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00457284	hypothetical protein LOC23131	S 503	87% (8.47)	0.8718	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220045	Isoform 1 of DNA-directed RNA polymerases III 80 kDa polypeptide	S 524	87% (18.19)	0.8712	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00643874	76 kDa protein	S 488	87% (18.19)	0.8712	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00256684	Isoform B of AP-2 complex subunit alpha-1	S 655	87% (16.76)	0.8710	2	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00304577	Isoform A of AP-2 complex subunit alpha-1	S 655	87% (16.76)	0.8710	2	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00289907	forty-two-three domain containing 1 isoform 1	S 118	87% (8.82)	0.8709	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00552700	Hypothetical protein DKFZp761B1514	S 118	87% (8.82)	0.8709	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00250716	Isoform B of Bromodomain and WD-repeat domain-containing protein 1	S 1475	87% (14.34)	0.8706	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00289944	Isoform A of Bromodomain and WD-repeat domain-containing protein 1	S 1475	87% (14.34)	0.8706	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00746752	Isoform C of Bromodomain and WD-repeat domain-containing protein 1	S 1475	87% (14.34)	0.8706	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00020124	Phosphatidylinositol 4-kinase type II	S 44	87% (4.19)	0.8702	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00477949	zinc finger protein 262	S 391	87% (4.63)	0.8695	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00513965	Zinc finger protein 262	S 336	87% (4.63)	0.8695	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00306195	CDNA FLJ30949 fis, clone HCASM1000021, weakly similar to Plasmodium berghei strain NYU2 merozoite	S 222	87% (8.18)	0.8694	5	3	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00549786	AKT1S1 protein	S 202	87% (8.18)	0.8694	5	3	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00106928	protein tyrosine phosphatase, non-receptor type 2	S 293	87% (8.76)	0.8691	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00218788	Isoform PTPA of Tyrosine-protein phosphatase non-receptor type 2	S 293	87% (8.76)	0.8691	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00219695	Isoform PTPB of Tyrosine-protein phosphatase non-receptor type 2	S 293	87% (8.76)	0.8691	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00556472	Protein tyrosine phosphatase, non-receptor type 2 isoform 1 variant (Fragment)	S 270	87% (8.76)	0.8691	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00217841	EPB41L5 protein	S 436	87% (15.24)	0.8691	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00376221	Erythrocyte membrane protein band 4.1 like 5	S 436	87% (15.24)	0.8691	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00029048	Tubulin--tyrosine ligase-like protein 12	S 16	87% (15.05)	0.8688	11	10	0	1	3	0	0	0	1	1	2	0	0	0	1	1	1	0	0	0	1	1	2	0	0	0	1	1	1	0	0	0	0	1	2	0	0	0
IPI00064212	KIAA1802 protein (Fragment)	S 293	87% (8.26)	0.8684	9	1	1	0	1	0	0	0	1	2	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00414497	Chromosome 13 open reading frame 8	S 284	87% (8.26)	0.8684	9	1	1	0	1	0	0	0	1	2	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00299463	Nibrin	S 432	87% (11.36)	0.8682	7	10	0	1	1	1	0	0	0	1	0	1	0	0	1	0	0	1	0	0	0	2	0	2	0	0	1	1	0	1	0	0	1	1	0	1	0	0
IPI00302829	Retinoblastoma-associated protein	S 788	87% (11.36)	0.8682	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00607775	nibrin isoform 2	S 350	87% (11.36)	0.8682	7	10	0	1	1	1	0	0	0	1	0	1	0	0	1	0	0	1	0	0	0	2	0	2	0	0	1	1	0	1	0	0	1	1	0	1	0	0
IPI00013949	Small glutamine-rich tetratricopeptide repeat-containing protein A	S 305	87% (11.36)	0.8682	5	3	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00237884	Isoform 1 of A-kinase anchor protein 12	S 504	87% (11.36)	0.8682	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00294603	Zinc finger protein 198	S 843	87% (11.36)	0.8682	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00640771	Zinc finger protein 198	S 221	87% (11.36)	0.8682	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00470478	374 kDa protein	S 346	87% (13.01)	0.8678	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00642126	chromosome 17 open reading frame 27	S 346	87% (13.01)	0.8678	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00183535	Isoform 1 of REST corepressor 3	S 171	87% (8.26)	0.8676	2	2	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00157442	Rho guanine nucleotide exchange factor 11	S 1295	87% (8.70)	0.8672	2	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00377085	Rho guanine nucleotide exchange factor (GEF) 11 isoform 2	S 1335	87% (8.70)	0.8672	2	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00514608	172 kDa protein	S 1333	87% (8.70)	0.8672	2	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00100798	CASP8-associated protein 2	S 940	87% (14.19)	0.8667	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00000816	14-3-3 protein epsilon	S 210	87% (14.19)	0.8665	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00027280	Isoform Beta-2 of DNA topoisomerase 2-beta	S 1424	87% (14.19)	0.8665	2	5	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00217709	Isoform Beta-1 of DNA topoisomerase 2-beta	S 1419	87% (14.19)	0.8665	2	5	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00027726	Isoform 1 of Krueppel-like factor 3	S 92	87% (12.96)	0.8664	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00409671	DEAD box polypeptide 42 protein	S 754	87% (15.57)	0.8655	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0
IPI00305589	Isoform 1 of 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2	S 483	87% (11.25)	0.8655	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
IPI00000105	Major vault protein	S 872	87% (11.25)	0.8654	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00172474	Isoform 2 of Zinc finger protein 91 homolog	S 85	87% (8.64)	0.8653	9	10	0	0	1	1	0	0	0	1	2	1	0	0	0	1	1	1	0	0	0	0	3	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0
IPI00477661	Isoform 1 of Zinc finger protein 91 homolog	S 85	87% (8.64)	0.8653	9	10	0	0	1	1	0	0	0	1	2	1	0	0	0	1	1	1	0	0	0	0	3	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0
IPI00164672	mRNA decapping enzyme 1A	S 315	86% (13.99)	0.8649	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00165995	Isoform 1 of Splicing factor, arginine/serine-rich 130	S 767	86% (10.47)	0.8647	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00396627	Isoform 1 of Zinc phosphodiesterase ELAC protein 2	S 199	86% (8.98)	0.8642	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00009866	Isoform 1 of Keratin, type I cytoskeletal 13	S 422	86% (11.20)	0.8639	7	2	0	0	0	1	0	1	1	0	0	1	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 1219	86% (7.83)	0.8639	9	8	3	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	4	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 1224	86% (7.83)	0.8639	9	8	3	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	4	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																				SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00748920	splicing coactivator subunit SRm300	S 1600	86% (4.39)	0.8637	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00013297	28 kDa heat- and acid-stable phosphoprotein	S 57	86% (9.42)	0.8627	1	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00384909	CDNA FLJ12811 fis, clone NT2RP2002475	S 298	86% (12.16)	0.8624	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00033054	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase like 2	S 28	86% (12.81)	0.8623	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00103090	Hypothetical protein LEO1	S 610	86% (15.71)	0.8623	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00160348	claspin	S 83	86% (12.81)	0.8623	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00166009	Isoform 1 of JmjC domain-containing histone demethylation protein 1A	S 739	86% (12.81)	0.8623	8	14	0	1	1	0	0	0	0	1	1	1	0	0	1	1	0	1	0	0	0	1	2	1	0	0	1	0	2	1	0	0	1	2	2	1	0	0	0	0
IPI00293845	275 kDa protein	S 2163	86% (12.81)	0.8623	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0
IPI00375454	Isoform 2 of Telomere-associated protein RIF1	S 2163	86% (12.81)	0.8623	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0
IPI00431262	Isoform 1 of Protein KIAA0195	S 450	86% (12.81)	0.8623	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00431263	Isoform 2 of Protein KIAA0195	S 450	86% (12.81)	0.8623	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00477805	Isoform 1 of Telomere-associated protein RIF1	S 2161	86% (12.81)	0.8623	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0
IPI00744511	CLSPN protein	S 83	86% (12.81)	0.8623	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748041	Claspin homolog	S 83	86% (12.81)	0.8623	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00012340	Splicing factor, arginine/serine-rich 9	S 189	86% (14.02)	0.8621	3	5	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0
IPI00023287	Isoform 4 of E3 ubiquitin-protein ligase NEDD4-like protein	S 327	86% (14.02)	0.8621	1	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00064212	KIAA1802 protein (Fragment)	S 636	86% (14.02)	0.8621	4	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00163321	Isoform 2 of E3 ubiquitin-protein ligase NEDD4-like protein	S 384	86% (14.02)	0.8621	1	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
IPI00166830	Isoform 5 of E3 ubiquitin-protein ligase NEDD4-like protein	S 428	86% (14.02)	0.8621	1	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
IPI00304945	Isoform 8 of E3 ubiquitin-protein ligase NEDD4-like protein	S 468	86% (14.02)	0.8621	1	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
IPI00396279	CLIP-associating protein 1	S 646	86% (14.02)	0.8621	2	4	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0
IPI00414497	Chromosome 13 open reading frame 8	S 627	86% (14.02)	0.8621	4	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00472044	Isoform 1 of GTPase-activating Rap/Ran-GAP domain-like 1	S 844	86% (14.02)	0.8621	3	2	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
IPI00640924	Isoform 1 of E3 ubiquitin-protein ligase NEDD4-like protein	S 448	86% (14.02)	0.8621	1	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
IPI00643856	Isoform 7 of E3 ubiquitin-protein ligase NEDD4-like protein	S 440	86% (14.02)	0.8621	1	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
IPI00644256	Isoform 6 of E3 ubiquitin-protein ligase NEDD4-like protein	S 420	86% (14.02)	0.8621	1	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
IPI00645145	CLASP1 protein	S 646	86% (14.02)	0.8621	2	4	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0
IPI00019471	Insulin receptor substrate 1	S 531	86% (14.02)	0.8621	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00023048	Elongation factor 1-delta	S 118	86% (3.98)	0.8619	1	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00642971	eukaryotic translation elongation factor 1 delta isoform 1	S 485	86% (3.98)	0.8619	1	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00178150	Isoform 1 of Chromosome-associated kinesin KIF4A	S 815	86% (11.12)	0.8617	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00449049	Poly [ADP-ribose] polymerase 1	S 781	86% (11.12)	0.8617	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00413140	Dynamin-1	S 781	86% (11.10)	0.8611	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514850	dynamin 1 isoform 2	S 778	86% (11.10)	0.8611	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00552861	dynamin 1 isoform 1	S 778	86% (11.10)	0.8611	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00002186	Brefeldin A-inhibited guanine nucleotide-exchange protein 2	S 349	86% (11.10)	0.8611	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00008961	Telomeric repeat-binding factor 2-interacting protein 1	S 203	86% (11.10)	0.8611	3	6	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0
IPI00009866	Isoform 1 of Keratin, type I cytoskeletal 13	S 425	86% (11.10)	0.8611	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0
IPI00028888	Isoform 1 of Heterogeneous nuclear ribonucleoprotein D0	S 82	86% (11.10)	0.8611	29	27	3	1	2	3	1	0	1	1	4	2	1	1	0	1	2	3	2	1	2	1	1	2	1	0	1	1	3	3	2	1	1	2	3	1	1	0	0	0
IPI00175136	RNA binding motif protein 15B	S 552	86% (11.10)	0.8611	6	6	1	1	0	0	0	0	0	1	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0
IPI00220684	Isoform 3 of Heterogeneous nuclear ribonucleoprotein D0	S 82	86% (11.10)	0.8611	29	27	3	1	2	3	1	0	1	1	4	2	1	1	0	1	2	3	2	1	2	1	1	2	1	0	1	1	3	3	2	1	1	1	2	3	1	1	0	0
IPI00293451	Tight junction protein ZO-3	S 870	86% (11.10)	0.8611	4	3	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
IPI00744036	tight junction protein 3	S 889	86% (11.10)	0.8611	4	3	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010700	Isoform 1 of Large proline-rich protein BAT2	S 458	86% (11.10)	0.8611	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00011857	Chromatin assembly factor 1 subunit B	S 409	86% (11.10)	0.8611	7	9	1	0	1	0	0	0	1	0	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	0	0
IPI00027035	XPA-binding protein 1	S 312	86% (11.10)	0.8611	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00065276	CDNA FLJ32841 fis, clone TESTI2003325	S 274	86% (11.10)	0.8611	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00084746	229 kDa protein	S 458	86% (11.10)	0.8611	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00100453	DENN domain containing protein	S 926	86% (11.10)	0.8611	4	2	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00163505	Isoform 1 of RNA-binding region-containing protein 2	S 97	86% (11.10)	0.8611	3	7	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	2	1	0	0	1	1	1	0	0	0	0	1	0	0	0	0	0	0
IPI00215801	Isoform 2 of RNA-binding region-containing protein 2	S 97	86% (11.10)	0.8611	3	7	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	2	1	0	0	1	1	1	0	0	0	0	1	0	0	0	0	0	0
IPI00291802	Isoform 3 of LIM domain only protein 7	S 276	86% (11.10)	0.8611	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
IPI00306825	Isoform 1 of Tumor protein D54	S 19	86% (11.10)	0.8611	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00332071	alveolar soft part sarcoma chromosome region, candidate 1	S 274	86% (11.10)	0.8611	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00373870	Isoform 1 of Chromodomain helicase-DNA-binding protein 3	S 713	86% (11.10)	0.8611	2	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00376933	HLA-B associated transcript-2 isoform b	S 446	86% (11.10)	0.8611	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00399265	tumor protein D52-like 2 isoform a	S 19	86% (11.10)	0.8611	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00399267	tumor protein D52-like 2 isoform c	S 19	86% (11.10)	0.8611	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00411635	KIAA0802 protein	S 1443	86% (11.10)	0.8611	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00465222	chromodomain helicase DNA binding protein 3 isoform 3	S 758	86% (11.10)	0.8611	2	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00472675	Nuclear pore complex protein Nup205	S 1167	86% (11.10)	0.8611	5	5	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00642673	ATP-binding cassette, sub-family F (GCN20), member 1	S 22	86% (11.10)	0.8611	3	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
IPI00742934	HLA-B associated transcript-2 isoform a	S 458	86% (11.10)	0.8611	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746398	hypothetical protein LOC55667	S 1042	86% (11.10)	0.8611	4	2	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 831	86% (13.98)	0.8609	6	4	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 836	86% (13.98)	0.8609	6	4	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00008223	UV excision repair protein RAD23 homolog B	S 160	86% (16.95)	0.8607	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0
IPI00292753	GTPase activating protein and VPS9 domains 1	S 466	86% (16.36)	0.8604	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00742770	KIAA1521 protein	S 305	86% (16.36)	0.8604	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00215638	ATP-dependent RNA helicase A	S 87	86% (15.69)	0.8602	5	5	0	1	0	0	0	0	1	0	0	0	0	0	1	2	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0
IPI00742905	146 kDa protein	S 87	86% (15.69)	0.8602	5	5	0	1	0	0	0	0	1	0	0	0	0	0	1	2	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0
IPI00152692	Probable D-tyrosyl-tRNA(Tyr) deacylase	S 196	86% (12.73)	0.8600	6	9	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	1	2	0
IPI00065931	A-kinase anchor protein 13 isoform 1	S 1933	86% (11.06)	0.8599	3	3	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00419433	Isoform 1 of Rab11 family-interacting protein 1	S 357	86% (11.06)	0.8599	5	7	0	0	0	0	0	0	1	2	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	1	2	1	0	0	0	0	1	0	0	0	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	S 1684	86% (11.06)	0.8599	1	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0
IPI00009471	WD-repeat protein 3	S 240	86% (11.06)	0.8599	7	7	1	1	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	2	2	0	0	0	0	0
IPI00106567	WD-repeat protein 33	S 1219	86% (11.06)	0.8599	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00175146	hypothetical protein LOC196441	S 949	86% (11.06)	0.8599	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00290032	Transient receptor potential cation channel subfamily M member 7	S 1504	86% (11.06)	0.8599	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00384569	Hypothetical protein KIAA1685	S 311	86% (11.06)	0.8599	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
IPI00419431	Hypothetical protein DKFZp686C1968	S 571	86% (11.06)	0.8599	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
IPI00438229	Isoform 1 of Transcription intermediary factor 1-beta	S 757	86% (11.06)	0.8599	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00619921	Isoform 4 of Death-inducer obliterator 1	S 1714	86% (11.06)	0.8599	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00409635	KIAA1228 protein	S 663	86% (14.19)	0.8591	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00419933	Pleckstrin homology domain containing, family A member 2	S 907	86% (11.10)	0.8591	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0
IPI00409671	DEAD box polypeptide 42 protein	S 751	86% (18.26)	0.8587	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00448465	Isoform 1 of Ankyrin repeat domain-containing protein 12	S 1189	86% (12.68)	0.8585	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00448466	Isoform 2 of Ankyrin repeat domain-containing protein 12	S 1166	86% (12.68)	0.8585	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00103090	Hypothetical protein LEO1	S 614	86% (17.77)	0.8566	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00168878	Torsin-1A-interacting protein 2	S 120	86% (10.92)	0.8559	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0
IPI00457284	hypothetical protein LOC23131	S 650	86% (10.92)	0.8559	3	1	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00479404	vacuolar protein sorting 13D isoform 1	S 1770	85% (8.26)	0.8543	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514073	vacuolar protein sorting 13D isoform 2	S 1770	85% (8.26)	0.8543	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00549473	PREDICTED: similar to Forkhead box protein K1 (Myocyte nuclear factor) (MNF) isoform 1	S 100	85% (8.21)	0.8538	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00556645	forkhead box K1	S 263	85% (8.21)	0.8538	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00027157	CENP-F kinetochore protein	S 3007	85% (8.26)	0.8536	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00007334	Isoform 1 of Apoptotic chromatin condensation inducer in the nucleus	S 561	85% (8.26)	0.8536	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00013215	Origin recognition complex subunit 1	S 287	85% (8.26)	0.8536	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00186194	KARP-1-binding protein	S 839	85% (8.26)	0.8536	3	3	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
IPI00643352	nucleoporin 214kDa	S 1081	85% (8.26)	0.8536	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00017763	Nucleosome assembly protein 1-like 4	S 121	85% (10.83)	0.8532	11	9	1	0	1	0	0	1	0	0	1	1	1	0	0	0	2	2	0	1	0	1	1	0	1	1	0	0	1	1	1	0	0	0	1	1	0	0
IPI00418185	Hypothetical protein FLJ20097	S 292	85% (18.19)	0.8530	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00553067	hypothetical protein LOC55610 isoform a	S 561	85% (18.19)	0.8530	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220754	Isoform 1 of Gamma-adducin	S 649	85% (14.19)	0.8528	30	17	3	3	1	1	2	0	2	2	1	2	4	0	3	2	0	1	2	1	3	2	1	1	1	0	2	0	0	2	1	0	1	1	0	1	1	0
IPI00216348	Isoform 2C of Cytoplasmic dynein 1 intermediate chain 2	S 91	85% (14.63)	0.8523	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00166044	Isoform 1 of Regulatory associated protein of mTOR	S 863	85% (14.63)	0.8523	6	4	1	1	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
IPI00394829	hypothetical protein LOC286077	S 514	85% (8.22)	0.8523	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00000733	U3 small nucleolar RNA-associated protein 18 homolog	S 206	85% (8.22)	0.8523	4	5	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0
IPI00024816	Hypothetical protein FLJ22484	S 151	85% (8.22)	0.8523	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 1113	85% (8.22)	0.8523	6	4	2	0	0	1	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0
IPI00061087	Protein C9orf42	S 147	85% (8.22)	0.8523	2	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
IPI00107113	Isoform 1 of U3 small nucleolar RNA-associated protein 14 homolog A	S 453	85% (8.22)	0.8523	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00169434	Grb10 interacting GYF protein 2	S 652	85% (8.22)	0.8523	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00329115	Isoform 1 of Protein C10orf47	S 312	85% (8.22)	0.8523	1	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0
IPI00456750	Niban-like protein	S 678	85% (8.22)	0.8523	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00647286	hypothetical protein LOC64855	S 691	85% (8.22)	0.8523	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 1118	85% (8.22)	0.8523	6	4	2	0	0	1	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0
IPI00025333	Isoform 3 of Anamorsin	S 170	85% (8.21)	0.8520	10	7	0	0	0	2	1	0	0	0	0	2	2	0	0	0	0	1	2	0	0	0	1	2	0	0	0	0	0	2	0	0	0	2	0	0	0	0
IPI00387130	Isoform 1 of Anamorsin	S 183	85% (8.21)	0.8520	10	7	0	0	0	2	1	0	0	0	0	2	2	0	0	0	0	1	2	0	0	0	1	2	0	0	0	0	0	2	0	0	0	2	0	0	0	0
IPI00555610	313 kDa protein	S 2851	85% (8.21)	0.8520	7	5	0	1	1	0	0	0	1	1	0	0	0	0	1	1	0	0	1	0	2	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0
IPI00104050	Thyroid hormone receptor-associated protein 3	S 622	85% (17.49)	0.8518	6	6	2	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0
IPI00099463	Sphingosine-1-phosphate lyase 1	S 564	85% (16.63)	0.8516	2	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00023748	Nascent polypeptide-associated complex alpha subunit	S 166	85% (13.65)	0.8514	10	15	1	0	0	0	1	0	1	0	0	1	1	0	1	1	0	2	1	0	1	1	0	3	0	0	1	0	1	2	1	0	1	1	0	1	1	1
IPI00413734	Isoform 6 of Transcriptional regulator ATRX	S 720	85% (8.26)	0.8503	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00045914	Msx2-interacting protein	S 2366	85% (12.38)	0.8497	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00216540	Isoform 4 of Protein kinase C-binding protein 1	S 276	85% (8.14)	0.8496	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00418316	RACK7 isoform e	S 672	85% (8.14)	0.8496	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00640598	protein kinase C binding protein 1 isoform a	S 672	85% (8.14)	0.8496	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00718938	Isoform 6 of Protein kinase C-binding protein 1	S 507	85% (8.14)	0.8496	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00719682	Isoform 7 of Protein kinase C-binding protein 1	S 671	85% (8.14)	0.8496	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00740207	RACK7 isoform j	S 647	85% (8.14)	0.8496	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00741204	RACK7 isoform f	S 647	85% (8.14)	0.8496	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00748579	RACK7 isoform d	S 647	85% (8.14)	0.8496	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00005978	Splicing factor, arginine/serine-rich 2	S 220	85% (8.14)	0.8495	2	2	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0
IPI00010200	YTH domain containing 2	S 1090	85% (8.14)	0.8495	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00012199	Hypothetical protein FLJ22321	S 110	85% (9.42)	0.8495	5	4	0	0	1	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00221325	Ran-binding protein 2	S 1993	85% (11.10)	0.8495	4	4	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00289344	Isoform 1 of Nuclear receptor corepressor 1	S 1196	85% (8.14)	0.8495	6	6	3	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00293845	275 kDa protein	S 2197	85% (8.14)	0.8495	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00375454	Isoform 2 of Telomere-associated protein RIF1	S 2197	85% (8.14)	0.8495	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00396010	RAB GTPase activating protein 1-like isoform A	S 119	85% (8.14)	0.8495	2	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00418300	RABGAP1L protein	S 82	85% (8.14)	0.8495	2	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00440727	Isoform 1 of Bromodomain-containing protein 4	S 470	85% (8.14)	0.8495	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00477388	Hypothetical protein	S 119	85% (8.14)	0.8495	2	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00477805	Isoform 1 of Telomere-associated protein RIF1	S 2195	85% (8.14)	0.8495	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00514256	92 kDa protein	S 119	85% (8.14)	0.8495	2	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00657953	triple functional domain	S 2429	85% (8.14)	0.8495	9	7	1	1	0	0	0	0	2	2	0	0	0	0	2	1	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0
IPI00304885	Centromere protein C 1	S 126	85% (14.02)	0.8494	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00010700	Isoform 1 of Large proline-rich protein BAT2	S 1306	85% (15.98)	0.8493	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00084746	229 kDa protein	S 1306	85% (15.98)	0.8493	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00376933	HLA-B associated transcript-2 isoform b	S 1294	85% (15.98)	0.8493	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00742934	HLA-B associated transcript-2 isoform a	S 1306	85% (15.98)	0.8493	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00418991	CDNA FLJ44035 fis, clone TESTI4028612	S 992	85% (13.38)	0.8491	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00742090	QSER1 protein (Fragment)	S 1231	85% (13.38)	0.8491	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00015029	Prostaglandin E synthase 3	S 148	85% (8.11)	0.8486	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022058	Isoform 1 of Development and differentiation-enhancing factor 2	S 820	85% (8.80)	0.8482	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00384689	Hypothetical protein KIAA0251	S 79	85% (10.66)	0.8479	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00000858	Isoform 1 of Negative elongation factor E	S 51	85% (12.31)	0.8475	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00154408	Isoform 2 of Negative elongation factor E	S 51	85% (12.31)	0.8475	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0
IPI00186194	KARP-1-binding protein	S 1522	85% (12.31)	0.8475	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	1	0	1	0	0
IPI00413492	calpastatin isoform b	S 111	85% (10.62)	0.8469	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00465148	CAST protein	S 92	85% (10.62)	0.8469	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00328293	Serine₩/arginine repetitive matrix 1	S 782	85% (12.20)	0.8468	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00332106	Pre-B-cell leukemia transcription factor interacting protein 1	S 45	85% (15.71)	0.8466	5	2	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00645060	Pre-B-cell leukemia transcription factor interacting protein 1	S 16	85% (15.71)	0.8466	5	2	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00020124	Phosphatidylinositol 4-kinase type II	S 462	85% (15.21)	0.8464	4	2	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
IPI00003843	Isoform A1 of Tight junction protein ZO-2	S 966	85% (10.60)	0.8463	2	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00186194	KARP-1-binding protein	S 1523	85% (10.00)	0.8453	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
IPI00022970	Nucleoprotein TPR	S 524	85% (15.83)	0.8451	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00022465	Isoform 1 of Citron Rho-interacting kinase	S 436	84% (14.19)	0.8448	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00719285	Citron	S 436	84% (14.19)	0.8448	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00418169	annexin A2 isoform 1	S 36	84% (15.42)	0.8446	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00455315	Annexin A2	S 17	84% (15.42)	0.8446	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00004233	Isoform Long of Antigen KI-67	S 352	84% (14.02)	0.8441	1	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
IPI00007926	c-Myc-responsive protein Rcl	S 169	84% (10.53)	0.8441	2	3	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00301293	antigen identified by monoclonal antibody Ki-67	S 352	84% (14.02)	0.8441	1	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
IPI00240675	programmed cell death 4 isoform 2	S 65	84% (12.19)	0.8440	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00290110	programmed cell death 4 isoform 1	S 76	84% (12.19)	0.8440	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00647084	Programmed cell death 4	S 62	84% (12.19)	0.8440	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00168388	Isoform 1 of Signal recognition particle 68 kDa protein	S 16	84% (7.97)	0.8439	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00015029	Prostaglandin E synthase 3	S 151	84% (8.11)	0.8439	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00001738	Nuclear pore complex protein Nup88	S 35	84% (16.76)	0.8435	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00239406	Isoform 2 of Nesprin-2	S 4110	84% (12.16)	0.8431	4	3	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00163644	Oxysterol-binding protein	S 808	84% (13.72)	0.8431	3	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00394737	Isoform 2 of Oxysterol-binding protein-related protein 8	S 792	84% (13.72)	0.8431	3	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00396370	Isoform 1 of Eukaryotic translation initiation factor 3 subunit 9	S 154	84% (7.94)	0.8427	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00470594	Putative MAPK activating protein	S 107	84% (7.94)	0.8427	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00719752	Isoform 2 of Eukaryotic translation initiation factor 3 subunit 9	S 154	84% (7.94)	0.8427	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00747447	99 kDa protein	S 154	84% (7.94)	0.8427	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00455518	MORC family CW-type zinc finger 2	S 717	84% (10.79)	0.8419	2	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0
IPI00440727	Isoform 1 of Bromodomain-containing protein 4	S 1083	84% (13.33)	0.8419	4	4	2	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0
IPI00376229	Isoform 1 of Phosphofurin acidic cluster sorting protein 1	S 534	84% (12.23)	0.8414	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00456262	Isoform 2 of Phosphofurin acidic cluster sorting protein 1	S 534	84% (12.23)	0.8414	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00337530	Isoform 1 of RalBP1-associated Eps domain-containing protein 1	S 430	84% (15.63)	0.8412	2	8	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	1	1	0	0	0	1	2	0	0	0	0
IPI00337532	Isoform 3 of RalBP1-associated Eps domain-containing protein 1	S 430	84% (15.63)	0.8412	2	8	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	1	1	0	0	0	1	2	0	0	0	0
IPI00216219	Isoform Long of Tight junction protein ZO-1	S 1366	84% (16.28)	0.8410	2	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00083708	HBxAg transactivated protein 2	S 1271	84% (8.87)	0.8408	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00739117	HBxAg transactivated protein 2	S 1269	84% (8.87)	0.8408	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00026952	Plakophilin-3	S 331	84% (7.88)	0.8407	6	6	0	1	0	1	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	0	1	0	0	0
IPI00479145	Keratin, type I cytoskeletal 19	S 395	84% (10.42)	0.8404	2	2	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00337315	Isoform 1 of Retinoblastoma-binding protein 6	S 1277	84% (18.00)	0.8400	5	5	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00376283	Isoform 2 of Retinoblastoma-binding protein 6	S 1243	84% (18.00)	0.8400	5	5	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00382585	182 kDa protein	S 1100	84% (18.00)	0.8400	5	5	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00243221	Nardilysin	S 96	84% (3.60)	0.8399	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00747052	Isoform 2 of Nardilysin precursor	S 96	84% (3.60)	0.8399	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00298884	Putative RNA-binding protein 16	S 617	84% (14.19)	0.8390	8	9	2	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	2	2	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0
IPI00744707	141 kDa protein	S 619	84% (14.19)	0.8390	8	9	2	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	2	2	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0
IPI00746419	IMP dehydrogenase/GMP reductase family protein	S 2868	84% (7.48)	0.8386	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746419	IMP dehydrogenase/GMP reductase family protein	S 2872	84% (7.48)	0.8386	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00012885	Isoform 1 of Focal adhesion kinase 1	S 722	84% (14.19)	0.8381	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413961	PTK2 protein tyrosine kinase 2 isoform b	S 744	84% (14.19)	0.8381	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00749256	PTK2 protein tyrosine kinase 2 isoform b variant (Fragment)	S 674	84% (14.19)	0.8381	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005154	Structure-specific recognition protein 1	S 437	84% (10.14)	0.8371	3	2	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00552897	Isoform 1 of Mediator of DNA damage checkpoint protein 1	S 372	84% (8.55)	0.8366	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00641106	227 kDa protein	S 372	84% (8.55)	0.8366	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00329650	Nucleoporin NUP53	S 100	84% (14.89)	0.8365	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00070943	Isoform 1 of Phosphatidylinositol 4-kinase alpha	S 207	83% (14.04)	0.8342	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00477949	zinc finger protein 262	S 393	83% (3.78)	0.8339	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00513965	Zinc finger protein 262	S 338	83% (3.78)	0.8339	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00007277	LRR FLI-I interacting protein 2	S 324	83% (14.02)	0.8336	4	6	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0
IPI00029019	Ubiquitin-associated protein 2-like	S 611	83% (14.02)	0.8336	14	13	2	2	0	0	0	0	2	2	0	0	0	0	3	2	1	0	0	0	3	0	0	0	0	0	2	2	0	1	0	0	1	2	1	1	0	0
IPI00304692	Heterogeneous nuclear ribonucleoprotein G	S 326	83% (14.02)	0.8336	2	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
IPI00412535	115 kDa protein	S 611	83% (14.02)	0.8336	14	13	2	2	0	0	0	0	2	2	0	0	0	0	3	2	1	0	0	0	3	0	0	0	0	0	2	2	0	1	0	0	1	2	1	1	0	0
IPI00514856	Ubiquitin associated protein 2-like	S 609	83% (14.02)	0.8336	14	13	2	2	0	0	0	0	2	2	0	0	0	0	3	2	1	0	0	0	3	0	0	0	0	0	2	2	0	1	0	0	1	2	1	1	0	0
IPI00472901	chromodomain helicase DNA binding protein 7	S 2251	83% (11.86)	0.8334	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00409607	Novel protein	S 1148	83% (11.75)	0.8327	3	4	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00642366	calmodulin regulated spectrin-associated protein 1-like 1	S 1137	83% (11.75)	0.8327	3	4	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00411715	Isoform 2 of Nuclear factor NF-kappa-B p100 subunit	S 222	83% (13.99)	0.8327	1	7	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	2	0	1	0	0	0	2	0	0	0	0
IPI00394829	hypothetical protein LOC286077	S 5	83% (10.00)	0.8325	6	2	1	2	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00022649	Isoform 1 of Solute carrier family 12 member 2	S 265	83% (10.17)	0.8324	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00220844	Isoform 2 of Solute carrier family 12 member 2	S 265	83% (10.17)	0.8324	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00083708	HBxAg transactivated protein 2	S 928	83% (10.17)	0.8324	3	4	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00448767	Growth factor receptor-bound protein 7	S 368	83% (10.17)	0.8324	5	6	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0
IPI00739117	HBxAg transactivated protein 2	S 926	83% (10.17)	0.8324	3	4	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00030466	PREDICTED: hypothetical protein LOC26115 isoform 1	S 1356	83% (14.07)	0.8313	12	10	5	0	0	0	0	0	3	0	0	0	0	0	4	0	0	0	0	0	2	0	0	0	0	0	4	0	0	0	0	0	4	0	0	0	0	0
IPI00033907	Anaphase-promoting complex subunit 1	S 341	83% (10.14)	0.8313	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00289776	Isoform 1 of Probable ubiquitin ligase protein MYCBP2	S 2749	83% (10.14)	0.8313	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00607852	Isoform 2 of Probable ubiquitin ligase protein MYCBP2	S 2749	83% (10.14)	0.8313	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00290950	Hypothetical protein DKFZp686P0251	S 477	83% (11.59)	0.8306	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
IPI00329787	WD repeat domain 20 isoform 3	S 404	83% (11.59)	0.8306	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
IPI00377221	WD repeat domain 20 isoform 1	S 465	83% (11.59)	0.8306	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
IPI00377222	WD repeat domain 20 isoform 4	S 341	83% (11.59)	0.8306	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
IPI00291376	Putative RNA methyltransferase NCOA6IP	S 154	83% (12.96)	0.8300	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
IPI00185027	Isoform 1 of Arginine-glutamic acid dipeptide repeats protein	S 642	83% (3.44)	0.8297	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
IPI00328293	Serine¥/arginine repetitive matrix 1	S 734	83% (3.44)	0.8297	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
IPI00216689	Poly(rC)-binding protein 2	S 171	83% (6.67)	0.8287	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
IPI00009917	Isoform 3 of LAS1-like protein	S 196	83% (10.05)	0.8281	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
IPI00641990	Isoform 1 of LAS1-like protein	S 238	83% (10.05)	0.8281	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
IPI00645869	Isoform 2 of LAS1-like protein	S 238	83% (10.05)	0.8281	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
IPI00643352	nucleoporin 214kDa	S 666	83% (12.90)	0.8279	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	
IPI00183002	Isoform 1 of Protein phosphatase 1 regulatory subunit 12A	S 422	83% (19.38)	0.8269	3	4	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	1	0	0	0	0	
IPI00397728	Isoform 2 of Protein phosphatase 1 regulatory subunit 12A	S 422	83% (19.38)	0.8269	3	4	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	1	0	0	0	0	
IPI00397730	Isoform 4 of Protein phosphatase 1 regulatory subunit 12A	S 422	83% (19.38)	0.8269	3	4	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	1	0	0	0	0	
IPI00413191	Isoform 3 of Protein phosphatase 1 regulatory subunit 12A	S 422	83% (19.38)	0.8269	3	4	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	1	0	0	0	0	
IPI00150057	Isoform 2 of SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily C me	S 286	83% (14.08)	0.8266	3	1	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
IPI00216047	Isoform 1 of SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily C me	S 286	83% (14.08)	0.8266	3	1	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
IPI00014414	Bromodomain-containing protein 2	S 305	83% (14.55)	0.8254	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
IPI00440502	BRD2 protein	S 305	83% (14.55)	0.8254	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
IPI00645146	88 kDa protein	S 305	83% (14.55)	0.8254	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
IPI00748005	92 kDa protein	S 305	83% (14.55)	0.8254	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
IPI00419373	Isoform 1 of Heterogeneous nuclear ribonucleoprotein A3	S 358	83% (15.21)	0.8254	10	2	1	0	0	2	0	0	1	0	0	2	0	1	1	0	0	2	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	
IPI00017297	Matrin-3	S 621	83% (12.81)	0.8251	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
IPI00100197	Isoform 1 of NSFL1 cofactor p47	S 271	83% (12.81)	0.8251	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	S 329	83% (12.81)	0.8251	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00397571	Isoform 3 of NSFL1 cofactor p47	S 273	83% (12.81)	0.8251	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00748920	splicing coactivator subunit SRm300	S 398	83% (12.81)	0.8251	8	10	2	1	0	0	0	0	0	1	0	0	0	3	1	0	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	3	2	0	0	0	0
IPI00419979	p21-activated kinase 2	S 217	83% (9.68)	0.8251	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00187011	Zinc finger CCCH-type domain-containing protein C19orf7	S 1269	82% (7.43)	0.8246	6	1	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00010586	TATA element modulatory factor	S 927	82% (11.06)	0.8243	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00027157	CENP-F kinetochore protein	S 3179	82% (7.28)	0.8242	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00006029	Isoform 1 of Forkhead box protein K2	S 364	82% (14.52)	0.8242	4	2	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220426	Isoform 2 of Forkhead box protein K2	S 364	82% (14.52)	0.8242	4	2	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00385966	forkhead box K2 isoform 1	S 369	82% (14.52)	0.8242	4	2	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022479	guanine nucleotide exchange factor p532	S 4857	82% (7.43)	0.8241	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00246827	Isoform 1 of Protein C17orf28	S 651	82% (12.23)	0.8240	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00247634	Isoform 3 of Protein C17orf28	S 432	82% (12.23)	0.8240	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00607714	Isoform 2 of Protein C17orf28	S 647	82% (12.23)	0.8240	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00024970	Inner centromere protein	S 833	82% (6.03)	0.8222	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00759472	inner centromere protein antigens 135/155kDa isoform 2	S 824	82% (6.03)	0.8222	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00028618	Methylated-DNA--protein-cysteine methyltransferase	S 199	82% (11.10)	0.8222	2	3	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0
IPI00020060	Sodium/hydrogen exchanger 1	S 693	82% (11.10)	0.8222	9	3	1	2	0	0	0	0	2	1	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00641616	Solute carrier family 9	S 197	82% (11.10)	0.8222	9	3	1	2	0	0	0	0	2	1	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00646455	Solute carrier family 9	S 114	82% (11.10)	0.8222	9	3	1	2	0	0	0	0	2	1	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00397380	Isoform 2 of Epsin-2	S 195	82% (11.06)	0.8220	4	3	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00397381	epsin 2 isoform a	S 195	82% (11.06)	0.8220	4	3	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00337426	Isoform 1 of BMP-2-inducible protein kinase	S 689	82% (12.71)	0.8217	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00411356	Vacuolar sorting protein 4a	S 90	82% (9.75)	0.8214	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00026302	60S ribosomal protein L31	S 98	82% (13.65)	0.8212	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	S 1119	82% (9.85)	0.8212	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00020101	Histone H2B.a/g/h/k/l	S 36	82% (15.92)	0.8211	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00152906	Histone H2B.b	S 36	82% (15.92)	0.8211	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00303133	Histone H2B.j	S 36	82% (15.92)	0.8211	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1383	82% (11.06)	0.8209	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00425560	Isoform 1 of LAP4 protein	S 1581	82% (11.75)	0.8208	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00425566	Isoform 4 of LAP4 protein	S 1605	82% (11.75)	0.8208	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00059687	Isoform 1 of Protein C18orf25	S 67	82% (14.34)	0.8181	2	3	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1
IPI00152407	Isoform 2 of Protein C18orf25	S 67	82% (14.34)	0.8181	2	3	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1
IPI00293845	275 kDa protein	S 2341	82% (11.36)	0.8169	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00375454	Isoform 2 of Telomere-associated protein RIF1	S 2315	82% (11.36)	0.8169	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00477805	Isoform 1 of Telomere-associated protein RIF1	S 2339	82% (11.36)	0.8169	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00396145	FYVE finger-containing phosphoinositide kinase	S 1714	82% (12.31)	0.8167	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00457244	phosphatidylinositol-3-phosphate/phosphatidylinositol 5-kinase, type III isoform 1	S 1395	82% (12.31)	0.8167	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00376199	Interferon regulatory factor 2 binding protein 2	S 457	82% (11.36)	0.8164	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
IPI00646970	Interferon regulatory factor 2 binding protein 2	S 441	82% (11.36)	0.8164	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 380	82% (11.36)	0.8164	5	9	2	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	4	0	0	0	0	0	2	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 385	82% (11.36)	0.8164	5	9	2	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	4	0	0	0	0	0	2	0	0	0	0	0
IPI00004671	Golgin subfamily B member 1	S 2746	82% (10.82)	0.8163	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00023466	Protein AF-17	S 258	82% (10.00)	0.8162	4	4	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
IPI00759835	112 kDa protein	S 258	82% (10.00)	0.8162	4	4	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
IPI00304589	182 kDa tankyrase 1-binding protein	S 494	82% (12.55)	0.8161	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00549473	PREDICTED: similar to Forkhead box protein K1 (Myocyte nuclear factor) (MNF) isoform 1	S 132	82% (7.21)	0.8160	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00556645	forkhead box K1	S 295	82% (7.21)	0.8160	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00001735	nuclear receptor co-repressor 2	S 943	82% (9.70)	0.8159	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00027280	Isoform Beta-2 of DNA topoisomerase 2-beta	S 1526	82% (8.26)	0.8158	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00217709	Isoform Beta-1 of DNA topoisomerase 2-beta	S 1521	82% (8.26)	0.8158	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00016639	Protein kinase C iota type	S 238	82% (7.21)	0.8156	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00028005	Nuclear pore complex protein Nup107	S 11	82% (7.21)	0.8156	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00166680	Isoform 3 of Misshapen-like kinase 1	S 777	82% (7.21)	0.8156	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00291005	Malate dehydrogenase, cytoplasmic	S 240	82% (7.21)	0.8156	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00291800	Isoform 1 of Eukaryotic translation initiation factor 4E transporter	S 77	82% (7.21)	0.8156	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00292059	Nuclear pore complex protein Nup153	S 203	82% (7.21)	0.8156	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00386189	Isoform 1 of NMDA receptor-regulated protein 1	S 856	82% (7.21)	0.8156	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00414095	Eukaryotic translation initiation factor 4E nuclear import factor 1	S 77	82% (7.21)	0.8156	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00418313	Isoform 4 of Interleukin enhancer-binding factor 3	S 476	82% (7.21)	0.8156	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00465439	Fructose-bisphosphate aldolase A	S 35	82% (7.21)	0.8156	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00480157	154 kDa protein	S 203	82% (7.21)	0.8156	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00514528	nucleoporin 153kDa	S 203	82% (7.21)	0.8156	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00550518	Isoform 2 of Eukaryotic translation initiation factor 4E transporter	S 77	82% (7.21)	0.8156	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00645199	Eukaryotic translation initiation factor 4E nuclear import factor 1	S 77	82% (7.21)	0.8156	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219420	Structural maintenance of chromosome 3	S 1074	82% (9.69)	0.8155	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00328293	Serine¥/arginine repetitive matrix 1	S 790	82% (9.87)	0.8151	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 424	81% (14.19)	0.8128	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00012079	Eukaryotic translation initiation factor 4B	S 425	81% (15.92)	0.8123	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00152007	Tumor endothelial marker 4	S 527	81% (11.24)	0.8122	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00337641	Isoform 1 of Tetratricopeptide repeat protein 7B	S 58	81% (11.23)	0.8120	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456534	Isoform 2 of Tetratricopeptide repeat protein 7B	S 58	81% (11.23)	0.8120	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00396010	RAB GTPase activating protein 1-like isoform A	S 490	81% (15.38)	0.8113	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00418300	RABGAP1L protein	S 453	81% (15.38)	0.8113	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00477388	Hypothetical protein	S 502	81% (15.38)	0.8113	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514256	92 kDa protein	S 490	81% (15.38)	0.8113	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00293845	275 kDa protein	S 1878	81% (9.55)	0.8104	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00375454	Isoform 2 of Telomere-associated protein RIF1	S 1878	81% (9.55)	0.8104	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00477805	Isoform 1 of Telomere-associated protein RIF1	S 1876	81% (9.55)	0.8104	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00178047	Proline and glutamic acid rich nuclear protein isoform	S 955	81% (11.19)	0.8101	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00170548	Isoform 1 of ATPase family AAA domain-containing protein 2	S 61	81% (9.54)	0.8100	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00744288	Isoform 5 of C-jun-amino-terminal kinase-interacting protein 4	S 716	81% (9.49)	0.8081	4	5	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00006684	Isoform 4 of Apoptosis inhibitor 5	S 464	81% (11.12)	0.8079	8	9	0	2	2	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	3	1	1	0	0	0	1	1	0	0	0	0	0	0	0	1
IPI00554742	Isoform 2 of Apoptosis inhibitor 5	S 464	81% (11.12)	0.8079	8	9	0	2	2	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	3	1	1	0	0	0	1	1	0	0	0	0	0	0	0	1
IPI00555572	Isoform 1 of Apoptosis inhibitor 5	S 464	81% (11.12)	0.8079	8	9	0	2	2	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	3	1	1	0	0	0	1	1	0	0	0	0	0	0	0	1
IPI00005605	Isoform 1 of Protein NDRG3	S 341	81% (14.71)	0.8078	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00008137	Zinc finger protein 295	S 345	81% (12.31)	0.8073	2	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00152007	Tumor endothelial marker 4	S 463	81% (12.31)	0.8073	7	12	2	1	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	3	2	0	0	0	0	3	2	0	0	0	0	2	0	0	0	0	0
IPI00005024	Isoform 1 of Myb-binding protein 1A	S 1241	81% (11.10)	0.8072	5	5	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00012866	RAC-alpha serine/threonine-protein kinase	S 122	81% (11.10)	0.8072	3	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00163849	Epidermal growth factor receptor substrate 15-like 1	S 108	81% (11.10)	0.8072	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00216689	Poly(rC)-binding protein 2	S 187	81% (11.10)	0.8072	3	2	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00376229	Isoform 1 of Phosphofurin acidic cluster sorting protein 1	S 495	81% (11.10)	0.8072	1	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00395568	Isoform 1 of PHD finger protein 6	S 154	81% (11.10)	0.8072	8	16	0	1	1	0	1	0	0	1	0	1	0	0	1	0	1	1	0	0	1	0	2	3	0	0	1	1	0	3	0	0	1	1	1	2	0	0
IPI00456262	Isoform 2 of Phosphofurin acidic cluster sorting protein 1	S 495	81% (11.10)	0.8072	1	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00607584	Isoform 2 of Myb-binding protein 1A	S 1241	81% (11.10)	0.8072	5	5	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00646339	Hypothetical protein DKFZp586A0524	S 108	81% (11.10)	0.8072	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 854	81% (11.10)	0.8072	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00234154	similar to RIKEN cDNA 5730467H21	S 740	81% (11.10)	0.8072	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00021417	U4/U6.U5 tri-snRNP-associated protein 1	S 596	81% (8.00)	0.8070	2	2	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00021840	40S ribosomal protein S6	S 240	81% (14.02)	0.8070	3	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00029822	SMARCA4 isoform 2	S 1453	81% (14.02)	0.8070	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00293426	Probable global transcription activator SNF2L4	S 1421	81% (14.02)	0.8070	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00719818	nucleolar protein 5A	S 520	81% (14.02)	0.8070	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00045511	Mid-1-related chloride channel 1	S 532	81% (11.06)	0.8068	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00103756	Mid-1-related chloride channel 4	S 347	81% (11.06)	0.8068	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00103757	Mid-1-related chloride channel 3	S 411	81% (11.06)	0.8068	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00396547	Mid-1-related chloride channel 1	S 482	81% (11.06)	0.8068	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00409635	KIAA1228 protein	S 665	81% (14.01)	0.8064	8	7	1	1	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00032936	ETS domain-containing transcription factor ERF	S 24	81% (12.28)	0.8063	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0
IPI00642705	Isoform 2 of AT-rich interactive domain-containing protein 1A	S 702	81% (9.42)	0.8056	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00643722	Isoform 1 of AT-rich interactive domain-containing protein 1A	S 702	81% (9.42)	0.8056	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00000156	ligase III, DNA, ATP-dependent isoform beta precursor	S 210	81% (11.06)	0.8056	3	5	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00024773	Isoform 1 of FERM, RhoGEF and pleckstrin domain-containing protein 1	S 863	81% (11.06)	0.8056	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00029081	ligase III, DNA, ATP-dependent isoform alpha precursor	S 210	81% (11.06)	0.8056	3	5	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00409640	LISCH protein isoform 2	S 365	81% (11.06)	0.8056	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00409641	LISCH protein isoform 3	S 297	81% (11.06)	0.8056	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00641640	LISCH protein isoform 1	S 346	81% (11.06)	0.8056	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00744027	Isoform Beta of DNA ligase 3	S 123	81% (11.06)	0.8056	3	5	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00746306	Isoform Alpha of DNA ligase 3	S 123	81% (11.06)	0.8056	3	5	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00746455	Isoform 2 of FERM, RhoGEF and pleckstrin domain-containing protein 1	S 894	81% (11.06)	0.8056	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00005978	Splicing factor, arginine/serine-rich 2	S 25	81% (11.06)	0.8056	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00738223	PREDICTED: similar to rho guanine nucleotide exchange factor 5 isoform 1 isoform 1	S 1125	81% (11.06)	0.8056	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00031195	Isoform 1 of Vang-like protein 1	S 338	81% (9.42)	0.8056	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0
IPI00289776	Isoform 1 of Probable ubiquitin ligase protein MYCBP2	S 2751	81% (9.42)	0.8056	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00304589	182 kDa tankyrase 1-binding protein	S 1138	81% (9.42)	0.8056	3	5	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00307733	huntingtin interacting protein B	S 241	81% (9.42)	0.8056	5	2	1	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
IPI00386349	Isoform 2 of Vang-like protein 1	S 336	81% (9.42)	0.8056	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0
IPI00400873	Chromosome 10 open reading frame 18	S 2037	81% (9.42)	0.8056	6	10	0	1	1	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	2	1	1	0	0	0	2	1	0	0	0	0
IPI00442150	CDNA FLJ16420 fis, clone BRACE3003053. (Fragment)	S 744	81% (9.42)	0.8056	5	2	1	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
IPI00479893	PREDICTED: similar to retinoblastoma-associated protein 140 isoform 4	S 2037	81% (9.42)	0.8056	6	10	0	1	1	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	2	1	1	0	0	0	2	1	0	0	0	0
IPI00607852	Isoform 2 of Probable ubiquitin ligase protein MYCBP2	S 2751	81% (9.42)	0.8056	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00045914	Msx2-interacting protein	S 2493	81% (9.42)	0.8056	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00337530	Isoform 1 of RalBP1-associated Eps domain-containing protein 1	S 220	80% (15.92)	0.8049	3	5	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00337532	Isoform 3 of RalBP1-associated Eps domain-containing protein 1	S 220	80% (15.92)	0.8049	3	5	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00032342	Thyroid receptor-interacting protein 12	S 102	80% (15.42)	0.8046	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00552897	Isoform 1 of Mediator of DNA damage checkpoint protein 1	S 376	80% (8.51)	0.8045	8	5	1	0	1	0	1	0	2	0	1	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0
IPI00641106	227 kDa protein	S 376	80% (8.51)	0.8045	8	5	1	0	1	0	1	0	2	0	1	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0
IPI00021076	Isoform Long of Plakophilin-4	S 281	80% (11.01)	0.8040	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00334400	Isoform Short of Plakophilin-4	S 281	80% (11.01)	0.8040	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00555610	313 kDa protein	S 2064	80% (11.01)	0.8040	4	5	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00555838	Isoform 1 of Serine/threonine-protein kinase MARK2	S 569	80% (11.01)	0.8040	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00556171	Isoform 4 of Serine/threonine-protein kinase MARK2	S 515	80% (11.01)	0.8040	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00556187	Isoform 8 of Serine/threonine-protein kinase MARK2	S 569	80% (11.01)	0.8040	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00556468	Isoform 11 of Serine/threonine-protein kinase MARK2	S 569	80% (11.01)	0.8040	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00556620	Isoform 9 of Serine/threonine-protein kinase MARK2	S 515	80% (11.01)	0.8040	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00556650	Isoform 5 of Serine/threonine-protein kinase MARK2	S 515	80% (11.01)	0.8040	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00747119	plakophilin 4 isoform b	S 281	80% (11.01)	0.8040	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00043978	Isoform 1 of Amyotrophic lateral sclerosis 2 chromosome region candidate gene 19 protein	S 730	80% (9.38)	0.8040	3	4	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00075719	amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 19 isoform b	S 669	80% (9.38)	0.8040	3	4	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00409695	amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 19 isoform a	S 731	80% (9.38)	0.8040	3	4	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00022348	Isoform PML-1 of Probable transcription factor PML	S 518	80% (8.56)	0.8040	1	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00220453	Isoform PML-X of Probable transcription factor PML	S 518	80% (8.56)	0.8040	1	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00303999	Isoform PML-2 of Probable transcription factor PML	S 518	80% (8.56)	0.8040	1	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00304000	Isoform PML-3 of Probable transcription factor PML	S 518	80% (8.56)	0.8040	1	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00332110	promyelocytic leukemia protein isoform 9	S 518	80% (8.56)	0.8040	1	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00186711	plectin 1 isoform 6	S 4386	80% (16.66)	0.8034	8	3	2	0	1	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00186711	plectin 1 isoform 6	S 4389	80% (14.02)	0.8034	3	3	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0
IPI00398002	plectin 1 isoform 1	S 4276	80% (16.66)	0.8034	8	3	2	0	1	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0
IPI00398002	plectin 1 isoform 1	S 4279	80% (14.02)	0.8034	3	3	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0
IPI00398779	plectin 1 isoform 11	S 4249	80% (16.66)	0.8034	8	3	2	0	1	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0
IPI00398779	plectin 1 isoform 11	S 4252	80% (14.02)	0.8034	3	3	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0
IPI00329791	Probable ATP-dependent RNA helicase DDX46	S 295	80% (11.10)	0.8030	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00657954	118 kDa protein	S 295	80% (11.10)	0.8030	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00295774	Solute carrier family 23 member 2	S 81	80% (12.81)	0.8029	4	3	0	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00552917	OTTHUMP00000030176	S 81	80% (12.81)	0.8029	4	3	0	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00009101	Transcriptional activator SRCAP	S 2848	80% (10.92)	0.8027	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00444046	CDNA FLJ46149 fis, clone TESTI4000621, moderately similar to Homo sapiens Snf2-related CBP activator	S 3053	80% (10.92)	0.8027	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00550342	KIAA0309 protein	S 2895	80% (10.92)	0.8027	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413734	Isoform 6 of Transcriptional regulator ATRX	S 277	80% (21.26)	0.8026	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00169345	Protein NEDD1	S 568	80% (8.26)	0.8026	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00001780	Ubiquitin carboxyl-terminal hydrolase 16	S 552	80% (9.34)	0.8023	3	3	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00065276	CDNA FLJ32841 fis, clone TESTI2003325	S 275	80% (9.34)	0.8023	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00167053	Isoform 1b of Oxysterol-binding protein-related protein 3	S 341	80% (9.34)	0.8023	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00169296	Isoform 2b of Oxysterol-binding protein-related protein 3	S 341	80% (9.34)	0.8023	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00332071	alveolar soft part sarcoma chromosome region, candidate 1	S 275	80% (9.34)	0.8023	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00428464	ubiquitin specific protease 16 isoform b	S 551	80% (9.34)	0.8023	3	3	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00064162	Deubiquitinating protein VCIP135	S 757	80% (9.34)	0.8023	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00215965	heterogeneous nuclear ribonucleoprotein A1 isoform b	S 338	80% (9.34)	0.8023	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00219446	Phosphatidylethanolamine-binding protein 1	S 51	80% (9.34)	0.8023	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00219913	Ubiquitin carboxyl-terminal hydrolase 14	S 393	80% (9.34)	0.8023	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220302	Isoform 1 of Wilms' tumor 1-associating protein	S 306	80% (11.36)	0.8023	6	5	0	0	2	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0
IPI00640357	ubiquitin specific protease 14 isoform b	S 359	80% (9.34)	0.8023	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010700	Isoform 1 of Large proline-rich protein BAT2	S 456	80% (9.34)	0.8023	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00084746	229 kDa protein	S 456	80% (9.34)	0.8023	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00296388	Isoform 1 of Bromodomain adjacent to zinc finger domain 2A	S 137	80% (9.34)	0.8023	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00376933	HLA-B associated transcript-2 isoform b	S 444	80% (9.34)	0.8023	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00742934	HLA-B associated transcript-2 isoform a	S 456	80% (9.34)	0.8023	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00745274	bromodomain adjacent to zinc finger domain, 2A	S 137	80% (9.34)	0.8023	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00759742	Isoform 2 of Bromodomain adjacent to zinc finger domain 2A	S 137	80% (9.34)	0.8023	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00020513	Zyxin	S 368	80% (12.16)	0.8020	5	11	0	0	0	0	0	0	1	0	1	0	0	0	1	0	1	1	0	0	1	0	1	0	0	0	1	0	1	1	0	0	1	2	2	1	0	0
IPI00396557	ZYX protein	S 318	80% (12.16)	0.8020	5	11	0	0	0	0	0	0	1	0	1	0	0	0	1	0	1	1	0	0	1	0	1	0	0	0	1	0	1	1	0	0	1	2	2	1	0	0
IPI00414481	Isoform 1 of General transcription factor 3C polypeptide 1	S 1857	80% (12.16)	0.8020	6	9	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0
IPI00414482	Isoform 2 of General transcription factor 3C polypeptide 1	S 1877	80% (12.16)	0.8020	6	9	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0
IPI00018914	Tyrosine-protein phosphatase non-receptor type 14	S 591	80% (11.79)	0.8019	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00185371	CDNA FLJ40432 fis, clone TESTI2039227	S 272	80% (3.98)	0.8011	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00169345	Protein NEDD1	S 565	80% (8.22)	0.8009	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00019848	Isoform 1 of Host cell factor	S 666	80% (15.08)	0.8008	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00219326	Isoform 2 of Host cell factor	S 597	80% (15.08)	0.8008	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00465128	Isoform 1 of Large proline-rich protein BAT3	S 113	80% (15.08)	0.8005	15	11	1	1	2	0	1	0	1	1	3	0	1	0	1	1	1	0	0	1	2	1	1	0	2	0	0	1	1	1	1	0	0	1	0	0	0	0
IPI00513728	HLA-B associated transcript 3	S 113	80% (15.08)	0.8005	15	11	1	1	2	0	1	0	1	1	3	0	1	0	1	1	1	0	0	1	2	1	1	0	2	0	0	1	1	1	1	0	0	1	0	0	0	0
IPI00640922	Isoform 2 of Large proline-rich protein BAT3	S 113	80% (15.08)	0.8005	15	11	1	1	2	0	1	0	1	1	3	0	1	0	1	1	1	0	0	1	2	1	1	0	2	0	0	1	1	1	1	0	0	1	0	0	0	0
IPI00384202	Isoform 1 of Probable JmjC domain-containing histone demethylation protein 2C	S 320	80% (13.98)	0.8000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00304589	182 kDa tankyrase 1-binding protein	S 1554	80% (12.59)	0.7988	16	14	2	2	1	1	0	1	2	1	0	0	0	1	3	2	0	0	0	0	3	2	1	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0
IPI00014298	Periodic tryptophan protein 1 homolog	S 57	80% (9.12)	0.7982	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00385054	PWP1 protein	S 57	80% (9.12)	0.7982	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00028419	My020 protein	S 118	80% (11.01)	0.7972	4	3	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0
IPI00747113	Adenovirus E1B19k-binding protein B5	S 118	80% (11.01)	0.7972	4	3	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0
IPI00260388	PHD finger protein 2	S 539	79% (11.70)	0.7949	6	6	1	1	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	2	1	0	0	0
IPI00376493	PHD finger protein 2 isoform b	S 539	79% (11.70)	0.7949	6	6	1	1	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	2	1	0	0	0
IPI00477501	121 kDa protein	S 538	79% (11.70)	0.7949	6	6	1	1	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	2	1	0	0	0
IPI00219301	Myristoylated alanine-rich C-kinase substrate	S 76	79% (11.67)	0.7946	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0
IPI00164434	Isoform 1 of Receptor expression-enhancing protein 3	S 210	79% (6.59)	0.7943	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00738216	PREDICTED: hypothetical protein LOC23379	S 2247	79% (11.10)	0.7939	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00186966	Isoform IIA of Myc box-dependent-interacting protein 1	S 331	79% (9.12)	0.7935	2	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0
IPI00220587	Isoform BIN1+12A of Myc box-dependent-interacting protein 1	S 315	79% (9.12)	0.7935	2	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00220996	Isoform IIB of Myc box-dependent-interacting protein 1	S 300	79% (9.12)	0.7935	2	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00220998	Isoform II2 of Myc box-dependent-interacting protein 1	S 300	79% (9.12)	0.7935	2	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00008961	Telomeric repeat-binding factor 2-interacting protein 1	S 154	79% (9.11)	0.7932	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00012318	PREDICTED: mitogen-activated protein kinase kinase kinase 1	S 442	79% (9.11)	0.7932	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00457284	hypothetical protein LOC23131	S 469	79% (6.59)	0.7930	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00298696	Treacle protein	S 153	79% (6.63)	0.7909	1	5	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	1
IPI00470594	Putative MAPK activating protein	S 39	79% (6.63)	0.7909	3	3	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0
IPI00747047	Treacle major isoform	S 153	79% (6.63)	0.7909	1	5	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	1
IPI00005809	Serum deprivation-response protein	S 287	79% (18.50)	0.7907	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00170596	Paired amphipathic helix protein Sin3a	S 277	79% (12.79)	0.7900	5	5	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00028083	Translation initiation factor eIF-2B subunit beta	S 103	79% (12.02)	0.7894	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00166680	Isoform 3 of Misshapen-like kinase 1	S 732	79% (6.59)	0.7891	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00170934	LKB1 interacting protein	S 788	79% (6.59)	0.7891	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00184330	DNA replication licensing factor MCM2	S 108	79% (6.59)	0.7891	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456631	Isoform 1 of Lysine-specific histone demethylase 1	S 849	79% (6.59)	0.7891	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00645814	KIAA1187 protein	S 241	79% (6.59)	0.7891	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00654605	Hypothetical protein RPRC1	S 241	79% (6.59)	0.7891	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00033054	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase like 2	S 146	79% (11.25)	0.7876	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00026320	Ubiquitin-protein ligase EDD1	S 636	79% (6.55)	0.7872	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00741894	PREDICTED: similar to E3 ubiquitin protein ligase, HECT domain containing, 1	S 563	79% (6.55)	0.7872	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00028065	Cytoplasmic protein NCK1	S 91	79% (8.96)	0.7872	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00023344	Isoform 1 of Symplekin	S 1175	79% (11.10)	0.7863	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746292	symplekin	S 1043	79% (11.10)	0.7863	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 287	79% (13.24)	0.7863	2	3	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 292	79% (13.24)	0.7863	2	3	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00220845	Isoform Beta-4A of Integrin beta-4 precursor	S 1404	79% (12.68)	0.7859	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220847	Isoform Beta-4D of Integrin beta-4 precursor	S 1404	79% (12.68)	0.7859	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00296432	Isoform 1 of IWS1-like protein	S 80	78% (5.55)	0.7846	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00018370	Isoform 2 of Supervillin	S 238	78% (6.47)	0.7838	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218136	137 kDa protein	S 258	78% (8.87)	0.7835	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00221093	40S ribosomal protein S17	S 114	78% (8.87)	0.7835	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0
IPI00515042	cingulin	S 258	78% (8.87)	0.7835	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00013877	Isoform 1 of Heterogeneous nuclear ribonucleoprotein H3	S 131	78% (8.87)	0.7835	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216493	Isoform 3 of Heterogeneous nuclear ribonucleoprotein H3	S 82	78% (8.87)	0.7835	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00006093	Protein FAM38A	S 976	78% (6.47)	0.7834	4	2	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00030466	PREDICTED: hypothetical protein LOC26115 isoform 1	S 204	78% (6.47)	0.7834	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00290460	Eukaryotic translation initiation factor 3 subunit 4	S 42	78% (6.47)	0.7834	1	3	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0
IPI00376229	Isoform 1 of Phosphofurin acidic cluster sorting protein 1	S 430	78% (6.47)	0.7834	1	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00398012	Fragile site-associated protein	S 2755	78% (6.47)	0.7834	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00418313	Isoform 4 of Interleukin enhancer-binding factor 3	S 477	78% (6.47)	0.7834	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456262	Isoform 2 of Phosphofurin acidic cluster sorting protein 1	S 430	78% (6.47)	0.7834	1	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00027248	Tumor suppressor candidate 2	S 49	78% (10.48)	0.7833	5	6	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	1	1
IPI00448767	Growth factor receptor-bound protein 7	S 411	78% (11.64)	0.7818	6	3	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00479926	Isoform 2 of Ribosomal protein S6 kinase alpha-4	S 675	78% (12.31)	0.7811	3	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00186194	KARP-1-binding protein	S 498	78% (13.99)	0.7809	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00415054	Protein KIAA0329/KIAA0297	S 673	78% (13.98)	0.7803	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00185326	Isoform 1 of JmjC domain-containing histone demethylation protein 1B	S 975	78% (8.77)	0.7795	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
IPI00455183	F-box and leucine-rich repeat protein 10 isoform b	S 906	78% (8.77)	0.7795	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00737594	Isoform 3 of JmjC domain-containing histone demethylation protein 1B	S 963	78% (8.77)	0.7795	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00747262	Isoform 2 of JmjC domain-containing histone demethylation protein 1B	S 978	78% (8.77)	0.7795	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00028083	Translation initiation factor eIF-2B subunit beta	S 100	78% (6.63)	0.7794	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00166487	Isoform 3 of Protein KIAA0310	S 1191	78% (12.50)	0.7785	3	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219314	Isoform 2 of Protein KIAA0310	S 1191	78% (12.50)	0.7785	3	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641384	Isoform 1 of Protein KIAA0310	S 1191	78% (12.50)	0.7785	3	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00020060	Sodium/hydrogen exchanger 1	S 785	78% (14.50)	0.7782	4	5	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00641616	Solute carrier family 9	S 289	78% (14.50)	0.7782	4	5	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00646455	Solute carrier family 9	S 206	78% (14.50)	0.7782	4	5	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00607645	Sin3 histone deacetylase corepressor complex component SDS3	S 240	78% (8.26)	0.7779	9	11	1	0	1	1	0	0	1	1	1	0	0	0	1	1	0	1	0	0	1	1	1	0	0	0	1	1	1	2	0	0	1	1	0	1	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1601	78% (2.76)	0.7775	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00297254	Signal-induced proliferation-associated 1-like protein 3	S 1135	78% (10.34)	0.7775	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00289819	Cation-independent mannose-6-phosphate receptor precursor	S 840	78% (8.72)	0.7775	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022348	Isoform PML-1 of Probable transcription factor PML	S 504	78% (11.06)	0.7763	3	1	0	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220453	Isoform PML-X of Probable transcription factor PML	S 504	78% (11.06)	0.7763	3	1	0	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00303999	Isoform PML-2 of Probable transcription factor PML	S 504	78% (11.06)	0.7763	3	1	0	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00304000	Isoform PML-3 of Probable transcription factor PML	S 504	78% (11.06)	0.7763	3	1	0	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00332110	promyelocytic leukemia protein isoform 9	S 504	78% (11.06)	0.7763	3	1	0	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00383085	FLJ00144 protein (Fragment)	S 255	78% (2.51)	0.7757	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1539	77% (8.22)	0.7749	6	10	2	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0	0	2	1	0	0	0
IPI00144293	Isoform 1 of YTH domain-containing protein 1	S 417	77% (10.17)	0.7707	5	7	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	0	1	1	1	0	0
IPI00064767	nadrin isoform 1	S 676	77% (12.31)	0.7707	4	1	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00289876	syntaxin 7	S 129	77% (11.36)	0.7703	5	3	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0
IPI00552913	Isoform 2 of Syntaxin-7	S 128	77% (11.36)	0.7703	5	3	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0
IPI00014843	leucine rich repeat containing 16	S 1093	77% (11.36)	0.7703	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00054042	Isoform 1 of General transcription factor II-I	S 831	77% (11.36)	0.7703	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
IPI00217449	Isoform 3 of General transcription factor II-I	S 811	77% (11.36)	0.7703	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00217450	Isoform 4 of General transcription factor II-I	S 810	77% (11.36)	0.7703	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00219420	Structural maintenance of chromosome 3	S 1083	77% (11.36)	0.7703	5	5	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0
IPI00293242	Isoform 2 of General transcription factor II-I	S 790	77% (11.36)	0.7703	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00746051	Hypothetical protein FLJ20048	S 312	77% (11.36)	0.7703	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00555610	313 kDa protein	S 2808	77% (10.14)	0.7694	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00021417	U4/U6.U5 tri-snRNP-associated protein 1	S 598	77% (10.14)	0.7694	2	5	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00395568	Isoform 1 of PHD finger protein 6	S 138	77% (6.08)	0.7693	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00303722	Hypothetical protein FLJ14668	S 36	77% (4.12)	0.7689	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00074148	dystonin isoform 1	S 1378	77% (5.59)	0.7680	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00166487	Isoform 3 of Protein KIAA0310	S 417	77% (13.01)	0.7675	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00219314	Isoform 2 of Protein KIAA0310	S 417	77% (13.01)	0.7675	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00641384	Isoform 1 of Protein KIAA0310	S 417	77% (13.01)	0.7675	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00010241	WW domain-containing adapter with a coiled-coil region, isoform 1	S 64	77% (12.23)	0.7674	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00087375	WW domain-containing adapter with a coiled-coil region isoform 3	S 64	77% (12.23)	0.7674	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00256605	WW domain-containing adapter with a coiled-coil region isoform 1	S 64	77% (12.23)	0.7674	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00478665	WW domain-containing adapter with a coiled-coil region isoform 2	S 19	77% (12.23)	0.7674	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00187011	Zinc finger CCCH-type domain-containing protein C19orf7	S 807	77% (11.10)	0.7673	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00290547	E14 protein	S 1151	77% (6.13)	0.7671	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
IPI00017297	Matrin-3	S 195	77% (8.47)	0.7666	4	4	0	0	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00291032	spectrin domain with coiled-coils 1 NSP5b3b	S 329	77% (14.21)	0.7665	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00651629	spectrin domain with coiled-coils 1 NSP5a3b	S 248	77% (14.21)	0.7665	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00006079	Isoform 1 of Bcl-2-associated transcription factor 1	S 222	77% (12.20)	0.7664	9	9	1	0	0	1	0	0	1	2	0	1	0	0	1	2	0	0	0	0	2	1	1	0	0	0	1	1	0	0	0	0	1	1	1	0	0
IPI00413671	Isoform 2 of Bcl-2-associated transcription factor 1	S 220	77% (12.20)	0.7664	9	9	1	0	0	1	0	0	1	2	0	1	0	0	1	2	0	0	0	0	2	1	1	0	0	0	1	1	0	0	0	0	1	1	1	0	0
IPI00413672	Isoform 3 of Bcl-2-associated transcription factor 1	S 220	77% (12.20)	0.7664	9	9	1	0	0	1	0	0	1	2	0	1	0	0	1	2	0	0	0	0	2	1	1	0	0	0	1	1	0	0	0	0	1	1	1	0	0
IPI00289334	Isoform 1 of Filamin-B	S 2481	77% (14.47)	0.7658	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00382696	Isoform 2 of Filamin-B	S 2457	77% (14.47)	0.7658	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00174390	2'-phosphodiesterase	S 217	77% (14.19)	0.7653	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00024145	Isoform 1 of Voltage-dependent anion-selective channel protein 2	S 130	76% (14.34)	0.7649	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00216024	Isoform 2 of Voltage-dependent anion-selective channel protein 2	S 104	76% (14.34)	0.7649	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00216026	Isoform 3 of Voltage-dependent anion-selective channel protein 2	S 115	76% (14.34)	0.7649	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00216027	Isoform 4 of Voltage-dependent anion-selective channel protein 2	S 130	76% (14.34)	0.7649	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00411815	Isoform 5 of Voltage-dependent anion-selective channel protein 2	S 115	76% (14.34)	0.7649	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00455531	PREDICTED: similar to voltage-dependent anion channel 2	S 115	76% (14.34)	0.7649	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00718908	Isoform 6 of Voltage-dependent anion-selective channel protein 2	S 104	76% (14.34)	0.7649	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00022020	Type II inositol-3,4-bisphosphate 4-phosphatase	S 256	76% (6.08)	0.7649	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00294834	Aspartyl/asparaginyl beta-hydroxylase	S 29	76% (15.92)	0.7646	12	16	0	1	1	1	1	0	0	1	1	1	1	0	1	1	0	2	0	0	0	1	1	2	1	0	0	1	1	1	1	0	1	2	1	2	1	0
IPI00182728	Vacuolar sorting protein 4b	S 419	76% (6.67)	0.7636	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00025039	Fibrillarin	S 126	76% (6.05)	0.7636	1	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	S 518	76% (11.94)	0.7628	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00304885	Centromere protein C 1	S 773	76% (13.38)	0.7604	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00021175	Cell division cycle 2-related protein kinase 7	S 1082	76% (12.81)	0.7596	11	11	3	2	0	0	0	0	2	2	0	0	0	0	2	0	0	0	0	0	3	2	0	0	0	0	2	1	0	0	0	3	0	0	0	0	0	0
IPI00020985	E1A-associated protein p300	S 1038	76% (18.42)	0.7596	8	5	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0
IPI00017030	Isoform 1 of Myosin-18A	S 2010	76% (11.10)	0.7596	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00043978	Isoform 1 of Amyotrophic lateral sclerosis 2 chromosome region candidate gene 19 protein	S 141	76% (11.10)	0.7596	4	5	0	0	0	0	0	0	1	1	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0
IPI00075719	amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 19 isoform b	S 142	76% (11.10)	0.7596	4	5	0	0	0	0	0	0	1	1	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0
IPI00152377	Source of immunodominant MHC-associated peptides	S 13	76% (11.10)	0.7596	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00216952	Isoform C of Lamin-A/C	S 22	76% (11.10)	0.7596	4	5	0	0	1	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0
IPI00291796	BTB (POZ) domain containing 12	S 1070	76% (11.10)	0.7596	2	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00329236	Protein kinase C delta type	S 645	76% (11.10)	0.7596	8	7	0	0	2	1	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	0	2	1	0	0	0
IPI00384562	protein kinase C, delta	S 645	76% (11.10)	0.7596	8	7	0	0	2	1	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	0	2	1	0	0	0
IPI00409695	amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 19 isoform a	S 142	76% (11.10)	0.7596	4	5	0	0	0	0	0	0	1	1	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0
IPI00412364	BTB/POZ domain-containing protein 12	S 387	76% (11.10)	0.7596	2	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00418169	annexin A2 isoform 1	S 44	76% (11.10)	0.7596	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00455315	Annexin A2	S 25	76% (11.10)	0.7596	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00000156	ligase III, DNA, ATP-dependent isoform beta precursor	S 242	76% (11.10)	0.7596	8	11	1	1	0	0	0	0	0	3	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	0	3	0	0	0	0	1	4	0	0	0	0
IPI00001893	Isoform A of Protocadherin-7 precursor	S 1011	76% (11.10)	0.7596	3	0	0	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00029081	ligase III, DNA, ATP-dependent isoform alpha precursor	S 242	76% (11.10)	0.7596	8	11	1	1	0	0	0	0	0	3	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	0	3	0	0	0	0	1	4	0	0	0	0
IPI00154915	Isoform 1 of Partitioning-defective 3 homolog	S 728	76% (11.10)	0.7596	1	6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	0	0	0	0	0
IPI00179063	Isoform 4 of Partitioning-defective 3 homolog	S 728	76% (11.10)	0.7596	1	6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	0	0	0	0	0
IPI00301595	Isoform 2 of Partitioning-defective 3 homolog	S 728	76% (11.10)	0.7596	1	6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	0	0	0	0	0
IPI00301597	Par-3 partitioning defective 3 homolog	S 671	76% (11.10)	0.7596	1	6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	0	0	0	0	0
IPI00302592	Filamin A, alpha	S 860	76% (11.10)	0.7596	3	5	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0
IPI00333541	Filamin-A	S 859	76% (11.10)	0.7596	3	5	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0
IPI00744027	Isoform Beta of DNA ligase 3	S 155	76% (11.10)	0.7596	8	11	1	1	0	0	0	0	0	3	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	0	3	0	0	0	0	1	4	0	0	0	0
IPI00746306	Isoform Alpha of DNA ligase 3	S 155	76% (11.10)	0.7596	8	11	1	1	0	0	0	0	0	3	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	0	3	0	0	0	0	1	4	0	0	0	0
IPI00216540	Isoform 4 of Protein kinase C-binding protein 1	S 333	76% (11.01)	0.7591	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00418316	RACK7 isoform e	S 729	76% (11.01)	0.7591	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00640598	protein kinase C binding protein 1 isoform a	S 729	76% (11.01)	0.7591	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00718938	Isoform 6 of Protein kinase C-binding protein 1	S 564	76% (11.01)	0.7591	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00719682	Isoform 7 of Protein kinase C-binding protein 1	S 728	76% (11.01)	0.7591	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00740207	RACK7 isoform j	S 704	76% (11.01)	0.7591	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00741204	RACK7 isoform f	S 704	76% (11.01)	0.7591	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748579	RACK7 isoform d	S 704	76% (11.01)	0.7591	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00177642	Coiled-coil domain-containing protein 9	S 390	76% (7.21)	0.7585	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00409635	KIAA1228 protein	S 711	76% (11.06)	0.7577	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00010833	Zinc finger protein 148	S 306	76% (11.06)	0.7577	2	6	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	1	2	0	0	0	0
IPI00025100	2-oxoisovalerate dehydrogenase alpha subunit, mitochondrial precursor	S 337	76% (11.06)	0.7577	5	10	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	2	0	0	0	0	3	1	0	0
IPI00163866	PREDICTED: MAX dimerization protein 5 isoform 1	S 277	76% (11.06)	0.7577	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00216348	Isoform 2C of Cytoplasmic dynein 1 intermediate chain 2	S 84	76% (11.06)	0.7577	4	5	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0
IPI00216546	Isoform 2 of Probable palmitoyltransferase ZDHHC5	S 640	76% (11.06)	0.7577	2	2	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00291032	spectrin domain with coiled-coils 1 NSP5b3b	S 810	76% (11.06)	0.7577	3	4	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0
IPI00328272	Isoform 1 of Probable palmitoyltransferase ZDHHC5	S 693	76% (11.06)	0.7577	2	2	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00444329	CDNA FLJ45695 fis, clone FEBRA2013570, highly similar to 2- oxoisovalerate dehydrogenase alpha subur	S 371	76% (11.06)	0.7577	5	10	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	2	0	0	0	0	3	1	0	0
IPI00651629	spectrin domain with coiled-coils 1 NSP5a3b	S 729	76% (11.06)	0.7577	3	4	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0
IPI00657953	triple functional domain	S 1900	76% (11.06)	0.7577	4	4	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00737498	PREDICTED: similar to MAX-interacting protein isoform 5	S 277	76% (11.06)	0.7577	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1384	76% (9.34)	0.7577	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00328798	DLNB11 protein	S 1010	76% (10.92)	0.7572	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00021766	Isoform 1 of Reticulon-4	S 15	76% (8.26)	0.7572	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00298289	Isoform 2 of Reticulon-4	S 15	76% (8.26)	0.7572	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00478442	reticulon 4 isoform D	S 15	76% (8.26)	0.7572	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00300956	Isoform 1 of Ribonuclease III	S 355	76% (8.26)	0.7571	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00386808	HDAC7A protein	S 366	76% (8.26)	0.7571	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00418482	Histone deacetylase	S 403	76% (8.26)	0.7571	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00743474	Isoform 1 of Histone deacetylase 7a	S 364	76% (8.26)	0.7571	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00749076	Isoform 3 of Histone deacetylase 7a	S 334	76% (8.26)	0.7571	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00296432	Isoform 1 of IWS1-like protein	S 415	76% (10.73)	0.7567	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00186711	plectin 1 isoform 6	S 4613	76% (13.98)	0.7567	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00398002	plectin 1 isoform 1	S 4503	76% (13.98)	0.7567	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00398779	plectin 1 isoform 11	S 4476	76% (13.98)	0.7567	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00738937	PREDICTED: hypothetical protein LOC57479 isoform 1	S 578	76% (6.47)	0.7561	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00745321	PREDICTED: similar to CG17233-PA, isoform A isoform 5	S 569	76% (6.47)	0.7561	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00335634	Isoform Beta of Paxillin	S 322	76% (12.73)	0.7560	2	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00418991	CDNA FLJ44035 fis, clone TESTI4028612	S 1109	76% (8.22)	0.7557	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00742090	QSER1 protein (Fragment)	S 1348	76% (8.22)	0.7557	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00290142	CTP synthase	S 571	76% (8.22)	0.7557	9	12	1	1	1	0	0	0	0	1	1	0	0	0	1	1	2	0	0	0	1	2	1	0	0	0	1	1	2	0	0	0	2	1	1	0	0	0
IPI00001735	nuclear receptor co-repressor 2	S 1017	76% (8.22)	0.7553	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00028122	Isoform 1 of PC4 and SFRS1-interacting protein	S 116	76% (8.22)	0.7553	5	12	0	0	0	0	0	0	1	0	2	0	0	0	1	0	1	0	0	0	0	1	2	1	0	0	0	0	2	1	0	0	0	2	2	1	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 301	76% (8.22)	0.7553	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00175146	hypothetical protein LOC196441	S 354	76% (8.22)	0.7553	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00185919	Isoform 1 of La-related protein 1	S 824	76% (8.22)	0.7553	8	6	1	1	1	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00306265	A kinase anchor protein 10, mitochondrial precursor	S 187	76% (8.22)	0.7553	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00425560	Isoform 1 of LAP4 protein	S 748	76% (8.22)	0.7553	2	5	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00425566	Isoform 4 of LAP4 protein	S 748	76% (8.22)	0.7553	2	5	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00554788	Keratin, type I cytoskeletal 18	S 406	76% (8.22)	0.7553	3	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 306	76% (8.22)	0.7553	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1233	76% (8.22)	0.7553	3	5	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00106847	Isoform GTBP-alt of DNA mismatch repair protein MSH6	S 252	76% (8.21)	0.7552	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00455500	rapamycin-insensitive companion of mTOR	S 1284	76% (9.42)	0.7551	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00003783	Dual specificity mitogen-activated protein kinase kinase 2	S 295	76% (3.03)	0.7551	2	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00033054	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase like 2	S 165	75% (8.21)	0.7550	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00012885	Isoform 1 of Focal adhesion kinase 1	S 843	75% (6.12)	0.7543	4	4	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00413961	PTK2 protein tyrosine kinase 2 isoform b	S 865	75% (6.12)	0.7543	4	4	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00749256	PTK2 protein tyrosine kinase 2 isoform b variant (Fragment)	S 795	75% (6.12)	0.7543	4	4	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00107745	Isoform 1 of Cisplatin resistance-associated overexpressed protein	S 431	75% (13.63)	0.7541	4	6	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0
IPI00100453	DENN domain containing protein	S 925	75% (8.18)	0.7534	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00737871	PREDICTED: similar to angiomotin	S 19	75% (8.18)	0.7534	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746398	hypothetical protein LOC55667	S 1041	75% (8.18)	0.7534	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00433194	EHBP1 protein	S 342	75% (5.84)	0.7529	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00005978	Splicing factor, arginine/serine-rich 2	S 219	75% (5.84)	0.7529	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0
IPI00152011	PTPL1-associated RhoGAP 1	S 357	75% (5.84)	0.7529	4	5	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0
IPI00016670	FLJ20625 protein	S 27	75% (5.84)	0.7529	3	5	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1
IPI00064212	KIAA1802 protein (Fragment)	S 684	75% (5.84)	0.7529	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00414497	Chromosome 13 open reading frame 8	S 675	75% (5.84)	0.7529	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 333	75% (5.84)	0.7529	10	6	3	1	0	0	0	0	2	2	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0
IPI00433194	EHBP1 protein	S 391	75% (8.14)	0.7519	4	5	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00217943	Isoform 2 of Ras-related protein Rab-6A	S 183	75% (11.05)	0.7518	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00165995	Isoform 1 of Splicing factor, arginine/serine-rich 130	S 762	75% (7.71)	0.7517	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00294879	Ran GTPase-activating protein 1	S 428	75% (18.22)	0.7514	3	8	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	1	2	0	0	0
IPI00411570	KIAA1835 protein (Fragment)	S 464	75% (18.22)	0.7514	3	8	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	1	2	0	0	0
IPI00017443	Absent in melanoma 1-like	S 440	75% (8.14)	0.7514	8	5	1	2	0	0	0	0	2	2	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00170778	Formin binding protein 4	S 430	75% (8.14)	0.7514	5	6	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00215877	Isoform Short of Adenomatous polyposis coli protein	S 1657	75% (8.14)	0.7514	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00256861	Isoform 2 of Microtubule-actin crosslinking factor 1, isoforms 1/2/3/5	S 2428	75% (8.14)	0.7514	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00432363	Microtubule-actin crosslinking factor 1, isoform 4	S 2930	75% (8.14)	0.7514	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00478739	microfilament and actin filament cross-linker protein isoform b	S 2930	75% (8.14)	0.7514	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00513991	620 kDa protein	S 2428	75% (8.14)	0.7514	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00514468	670 kDa protein	S 2930	75% (8.14)	0.7514	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00550385	Isoform 1 of Microtubule-actin crosslinking factor 1, isoforms 1/2/3/5	S 2372	75% (8.14)	0.7514	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00014843	leucine rich repeat containing 16	S 967	75% (8.14)	0.7514	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00064212	KIAA1802 protein (Fragment)	S 468	75% (8.14)	0.7514	8	9	1	2	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0
IPI00142538	Isoform 1 of Probable helicase senataxin	S 911	75% (8.14)	0.7514	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00166512	stromal interaction molecule 1 precursor	S 668	75% (8.14)	0.7514	4	4	0	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00184997	Full-length cDNA clone CS0DH002YN05 of T cells (Fragment)	S 689	75% (8.14)	0.7514	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00299063	Stromal interaction molecule 1 precursor	S 668	75% (8.14)	0.7514	4	4	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0
IPI00414497	Chromosome 13 open reading frame 8	S 459	75% (8.14)	0.7514	8	9	1	2	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0
IPI00647106	Isoform 2 of Discs large homolog 7	S 581	75% (8.14)	0.7514	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00647892	Isoform 1 of Discs large homolog 7	S 662	75% (8.14)	0.7514	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00719643	Isoform 3 of Probable helicase senataxin	S 911	75% (8.14)	0.7514	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00746051	Hypothetical protein FLJ20048	S 186	75% (8.14)	0.7514	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00069309	Hypothetical protein DKFZp434K1815	S 241	75% (11.10)	0.7508	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00001754	Junctional adhesion molecule A precursor	S 287	75% (8.08)	0.7488	4	2	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00069985	28 kDa protein	S 248	75% (8.08)	0.7488	4	2	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00294993	F11 receptor isoform b	S 247	75% (8.08)	0.7488	4	2	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00419322	hepatoma-derived growth factor-related protein 2 isoform 1	S 144	75% (19.33)	0.7472	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00645387	hepatoma-derived growth factor-related protein 2 isoform 2	S 144	75% (19.33)	0.7472	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00293884	Kinesin-like protein KIF23	S 808	75% (8.22)	0.7472	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00029745	Nuclear factor 1 A-type	S 300	75% (13.02)	0.7467	2	3	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0
IPI00163319	Nuclear factor 1	S 300	75% (13.02)	0.7467	2	3	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0
IPI00641645	Nuclear factor 1	S 323	75% (13.02)	0.7467	2	3	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0
IPI00646660	Nuclear factor 1	S 278	75% (13.02)	0.7467	2	3	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00009286	Isoform 1 of Zinc finger protein HRX	S 3518	75% (11.10)	0.7462	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00456970	Isoform 1 of Cell division cycle 2-like protein kinase 5	S 437	74% (8.14)	0.7442	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00290460	Eukaryotic translation initiation factor 3 subunit 4	S 247	74% (7.97)	0.7437	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00012788	Isoform 2 of RNA polymerase I-associated factor PAF49	S 287	74% (9.55)	0.7435	3	7	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	2	2	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 999	74% (9.55)	0.7435	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00645816	Isoform 1 of RNA polymerase I-associated factor PAF49	S 285	74% (9.55)	0.7435	3	7	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	2	2	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 1004	74% (9.55)	0.7435	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00217978	26 kDa protein	S 194	74% (11.10)	0.7421	3	4	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00397380	Isoform 2 of Epsin-2	S 173	74% (11.64)	0.7420	5	5	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	1	2	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0
IPI00397381	epsin 2 isoform a	S 173	74% (11.64)	0.7420	5	5	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	1	2	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0
IPI00010700	Isoform 1 of Large proline-rich protein BAT2	S 457	74% (11.10)	0.7409	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00018370	Isoform 2 of Supervillin	S 694	74% (11.10)	0.7409	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00084746	229 kDa protein	S 457	74% (11.10)	0.7409	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00376933	HLA-B associated transcript-2 isoform b	S 445	74% (11.10)	0.7409	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00742934	HLA-B associated transcript-2 isoform a	S 457	74% (11.10)	0.7409	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00024579	Postreplication repair protein RAD18	S 103	74% (10.92)	0.7405	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0
IPI00025156	Isoform 1 of STIP1 homology and U box-containing protein 1	S 25	74% (13.37)	0.7395	3	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
IPI00187011	Zinc finger CCCH-type domain-containing protein C19orf7	S 1108	74% (8.87)	0.7393	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00411356	Vacuolar sorting protein 4a	S 97	74% (3.64)	0.7392	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00465128	Isoform 1 of Large proline-rich protein BAT3	S 1072	74% (6.13)	0.7382	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00513728	HLA-B associated transcript 3	S 1094	74% (6.13)	0.7382	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00640922	Isoform 2 of Large proline-rich protein BAT3	S 1058	74% (6.13)	0.7382	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00002054	132 kDa protein	S 204	74% (9.42)	0.7377	4	3	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0
IPI00006451	Vesicle-fusing ATPase	S 717	74% (9.69)	0.7374	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00177381	hypothetical protein LOC57703	S 829	74% (5.55)	0.7373	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00004344	Isoform 1 of AF4/FMR2 family member 4	S 180	74% (12.31)	0.7373	5	2	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
IPI00383219	Isoform 2 of AF4/FMR2 family member 4	S 180	74% (12.31)	0.7373	5	2	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
IPI00012318	PREDICTED: mitogen-activated protein kinase kinase kinase 1	S 478	74% (9.39)	0.7363	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00054042	Isoform 1 of General transcription factor II-I	S 823	74% (14.71)	0.7360	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00217449	Isoform 3 of General transcription factor II-I	S 803	74% (14.71)	0.7360	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00217450	Isoform 4 of General transcription factor II-I	S 802	74% (14.71)	0.7360	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00293242	Isoform 2 of General transcription factor II-I	S 782	74% (14.71)	0.7360	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00396627	Isoform 1 of Zinc phosphodiesterase ELAC protein 2	S 212	74% (16.85)	0.7358	3	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00337385	Isoform 1 of Pre-mRNA-processing factor 40 homolog A	S 933	73% (8.14)	0.7349	3	3	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00337386	Isoform 2 of Pre-mRNA-processing factor 40 homolog A	S 891	73% (8.14)	0.7349	3	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00337387	Isoform 3 of Pre-mRNA-processing factor 40 homolog A	S 915	73% (8.14)	0.7349	3	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00397509	Isoform 4 of Pre-mRNA-processing factor 40 homolog A	S 802	73% (8.14)	0.7349	3	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00000192	Isoform F of SON protein	S 283	73% (9.34)	0.7338	5	4	1	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00008918	Isoform Beta of LIM domain and actin-binding protein 1	S 374	73% (9.34)	0.7338	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00014235	Similar to RAB3 GTPase-activating protein	S 537	73% (9.34)	0.7338	2	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00021076	Isoform Long of Plakophilin-4	S 337	73% (9.34)	0.7338	10	11	1	1	0	1	0	0	1	1	0	0	0	0	2	2	0	1	0	0	2	1	1	0	0	0	1	2	0	1	0	0	1	2	0	0	0	0
IPI00023340	Histone acetyltransferase MYST3	S 1001	73% (9.34)	0.7338	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00064162	Deubiquitinating protein VCIP135	S 768	73% (9.34)	0.7338	3	1	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00217930	Isoform J of SON protein	S 283	73% (9.34)	0.7338	5	4	1	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00218617	SON protein	S 283	73% (9.34)	0.7338	5	4	1	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00218619	Isoform C of SON protein	S 283	73% (9.34)	0.7338	5	4	1	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00218620	Isoform D of SON protein	S 283	73% (9.34)	0.7338	5	4	1	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00218622	Isoform G of SON protein	S 283	73% (9.34)	0.7338	5	4	1	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00218624	Isoform I of SON protein	S 283	73% (9.34)	0.7338	5	4	1	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00334400	Isoform Short of Plakophilin-4	S 337	73% (9.34)	0.7338	10	11	1	1	0	1	0	0	1	1	0	0	0	0	2	2	0	1	0	0	2	1	1	0	0	0	1	2	0	1	0	0	1	2	0	0	0	0
IPI00382737	SON DNA-binding protein isoform G	S 283	73% (9.34)	0.7338	5	4	1	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00401958	SON DNA-binding protein isoform C	S 283	73% (9.34)	0.7338	5	4	1	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00445401	Isoform 2 of HECT, UBA and WWE domain-containing protein 1	S 648	73% (9.34)	0.7338	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00456919	Isoform 1 of HECT, UBA and WWE domain-containing protein 1	S 648	73% (9.34)	0.7338	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00643153	Isoform 3 of HECT, UBA and WWE domain-containing protein 1	S 648	73% (9.34)	0.7338	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00747119	plakophilin 4 isoform b	S 337	73% (9.34)	0.7338	10	11	1	1	0	1	0	0	1	1	0	0	0	0	2	2	0	1	0	0	2	1	1	0	0	0	1	2	0	1	0	0	1	2	0	0	0	0
IPI00747970	CDNA FLJ46465 fis, clone THYMU3022434, highly similar to Monocytic leukemia zinc finger protein. (Fra	S 581	73% (9.34)	0.7338	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00554648	Keratin, type II cytoskeletal 8	S 12	73% (9.34)	0.7338	1	3	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00009329	Utrophin	S 1796	73% (5.47)	0.7331	2	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00010653	Isoform 1 of RNA exonuclease 4	S 111	73% (5.47)	0.7331	3	3	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0
IPI00013743	Hypothetical protein BUD13	S 127	73% (5.47)	0.7331	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00413362	signal-induced proliferation-associated 1 like 1	S 162	73% (5.47)	0.7331	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00435422	Isoform 2 of Signal-induced proliferation-associated 1-like protein 1	S 162	73% (5.47)	0.7331	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00302592	Filamin A, alpha	S 1630	73% (5.47)	0.7331	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00333541	Filamin-A	S 1629	73% (5.47)	0.7331	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00550506	Isoform 1 of Rho guanine nucleotide exchange factor 16	S 576	73% (8.80)	0.7325	2	5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00102575	ATP(GTP)-binding protein	S 306	73% (11.10)	0.7316	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00019901	Isoform 1 of Alpha-adducin	S 355	73% (7.71)	0.7314	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00220158	Isoform 3 of Alpha-adducin	S 355	73% (7.71)	0.7314	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	S 3527	73% (7.71)	0.7312	3	5	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0
IPI00419693	activating transcription factor 7 interacting protein	S 477	73% (11.39)	0.7310	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00022904	50 kDa protein	S 300	73% (12.81)	0.7305	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00103654	Hypothetical protein	S 224	73% (12.81)	0.7305	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00218753	Isoform 3 of DNA topoisomerase 2-alpha	S 1429	73% (12.81)	0.7305	9	9	3	0	0	0	0	0	4	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	1	0	0	0	3	0	0	0	0	0	0
IPI00218754	Isoform 4 of DNA topoisomerase 2-alpha	S 1474	73% (12.81)	0.7305	9	9	3	0	0	0	0	0	4	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	1	0	0	0	3	0	0	0	0	0	0
IPI00414101	Isoform 2 of DNA topoisomerase 2-alpha	S 1420	73% (12.81)	0.7305	9	9	3	0	0	0	0	0	4	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	1	0	0	0	3	0	0	0	0	0	0
IPI00478232	Isoform 1 of DNA topoisomerase 2-alpha	S 1430	73% (12.81)	0.7305	9	9	3	0	0	0	0	0	4	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	1	0	0	0	3	0	0	0	0	0	0
IPI00746062	PPP4R2 protein	S 167	73% (12.81)	0.7305	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00293451	Tight junction protein ZO-3	S 112	73% (9.37)	0.7303	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00744036	tight junction protein 3	S 131	73% (9.37)	0.7303	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218729	Isoform 2 of Disks large homolog 1	S 155	73% (7.67)	0.7293	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00552511	Isoform 4 of Disks large homolog 1	S 155	73% (7.67)	0.7293	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00029019	Ubiquitin-associated protein 2-like	S 456	73% (11.36)	0.7292	5	8	0	0	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	0	1	0	0	0	0	2	0	0	0	1	1	1	0	0	0	0
IPI00412535	115 kDa protein	S 456	73% (11.36)	0.7292	5	8	0	0	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	0	1	0	0	0	0	2	0	0	0	1	1	1	0	0	0	0
IPI00514856	Ubiquitin associated protein 2-like	S 454	73% (11.36)	0.7292	5	8	0	0	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	0	1	0	0	0	0	2	0	0	0	1	1	1	0	0	0	0
IPI00418185	Hypothetical protein FLJ20097	S 225	73% (14.34)	0.7284	2	5	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0
IPI00553067	hypothetical protein LOC55610 isoform a	S 494	73% (14.34)	0.7284	2	5	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0
IPI00030274	hypothetical protein LOC84081 isoform 1	S 33	73% (11.33)	0.7280	8	5	0	0	2	0	0	0	0	1	1	0	0	0	0	1	2	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00410717	Isoform 1 of Pogo transposable element with ZNF domain	S 779	73% (0.00)	0.7264	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00410717	Isoform 1 of Pogo transposable element with ZNF domain	S 783	73% (0.00)	0.7264	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00410718	pogo transposable element with ZNF domain isoform 2	S 726	73% (0.00)	0.7264	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00410718	pogo transposable element with ZNF domain isoform 2	S 730	73% (0.00)	0.7264	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00410719	Isoform 3 of Pogo transposable element with ZNF domain	S 735	73% (0.00)	0.7264	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00410719	Isoform 3 of Pogo transposable element with ZNF domain	S 739	73% (0.00)	0.7264	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514078	Pogo transposable element with ZNF domain	S 684	73% (0.00)	0.7264	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514078	Pogo transposable element with ZNF domain	S 688	73% (0.00)	0.7264	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514439	pogo transposable element with ZNF domain isoform 1	S 779	73% (0.00)	0.7264	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514439	pogo transposable element with ZNF domain isoform 1	S 783	73% (0.00)	0.7264	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514770	Pogo transposable element with ZNF domain	S 735	73% (0.00)	0.7264	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514770	Pogo transposable element with ZNF domain	S 739	73% (0.00)	0.7264	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00374054	Isoform 2 of Protein enabled homolog	S 506	73% (11.10)	0.7252	3	3	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00549725	Phosphoglycerate mutase 1	S 117	73% (9.16)	0.7252	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2	1	0	0	0
IPI00646954	89 kDa protein	S 753	73% (11.10)	0.7252	3	3	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0
IPI00012345	Isoform SRP55-1 of Splicing factor, arginine/serine-rich 6	S 297	72% (2.99)	0.7249	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00215879	Isoform SRP55-3 of Splicing factor, arginine/serine-rich 6	S 297	72% (2.99)	0.7249	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 860	72% (5.31)	0.7247	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 865	72% (5.31)	0.7247	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00412993	CDNA FLJ36874 fis, clone ASTRO2018169, weakly similar to Oocyte- specific protein P100	S 34	72% (5.31)	0.7241	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00301465	hypothetical protein LOC55355	S 210	72% (5.31)	0.7241	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514311	CTTNBP2 N-terminal-like protein	S 285	72% (5.31)	0.7241	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
IPI00013444	Zinc finger protein 40	S 2681	72% (9.12)	0.7232	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00005011	Isoform 1 of CCR4-NOT transcription complex subunit 2	S 126	72% (14.19)	0.7231	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00017733	Isoform 5 of CCR4-NOT transcription complex subunit 2	S 126	72% (14.19)	0.7231	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00410623	Isoform 4 of CCR4-NOT transcription complex subunit 2	S 126	72% (14.19)	0.7231	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00296432	Isoform 1 of IWS1-like protein	S 82	72% (6.67)	0.7222	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00020546	Ash1	S 1226	72% (11.17)	0.7205	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00642422	Ash1	S 935	72% (11.17)	0.7205	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00552897	Isoform 1 of Mediator of DNA damage checkpoint protein 1	S 505	72% (3.47)	0.7195	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641106	227 kDa protein	S 505	72% (3.47)	0.7195	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00030531	sarcolemma associated protein	S 437	72% (12.19)	0.7194	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00011592	Cytoplasmic dynein 1 light intermediate chain 2	S 443	72% (16.66)	0.7178	4	9	0	0	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	1	0	0	0	3	1	0	0	0
IPI00290272	DNA polymerase alpha subunit B	S 150	72% (11.10)	0.7174	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00018914	Tyrosine-protein phosphatase non-receptor type 14	S 593	72% (6.59)	0.7173	2	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00299116	Podocalyxin-like protein 1 precursor	S 489	72% (11.10)	0.7173	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
IPI00513791	dedicator of cytokinesis 7	S 900	72% (11.10)	0.7173	5	5	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0
IPI00604773	podocalyxin-like precursor isoform 1	S 519	72% (11.10)	0.7173	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
IPI00032597	RNA-binding motif protein, X-linked 2	S 186	72% (7.43)	0.7172	3	3	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00411984	Serine/threonine-protein kinase 3	S 385	72% (7.43)	0.7172	6	7	0	0	0	0	1	0	1	0	0	1	1	0	0	0	1	0	1	0	0	0	2	0	1	0	0	0	1	0	1	0	0	0	1	1	0	0
IPI00018274	Isoform 1 of Epidermal growth factor receptor precursor	S 1026	72% (10.14)	0.7160	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00025849	Acidic leucine-rich nuclear phosphoprotein 32 family member A	S 17	72% (8.26)	0.7160	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00019551	Pleckstrin homology-like domain family A member 2 (Fragment)	S 144	72% (8.96)	0.7157	7	11	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	2	0	0	0	0	0	1	2	0	0	0	0	0	3	0	0	0	2	3	0	0
IPI00216219	Isoform Long of Tight junction protein ZO-1	S 968	72% (11.06)	0.7152	1	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00219726	Isoform 2AC of Catenin delta-1	S 807	72% (11.06)	0.7152	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00219728	Isoform 2A of Catenin delta-1	S 801	72% (11.06)	0.7152	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00414315	Isoform 1 of Epidermal growth factor receptor kinase substrate 8-like protein 2	S 449	71% (7.38)	0.7146	10	9	1	1	1	0	0	0	0	2	1	0	0	0	1	2	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0
IPI00009326	65 kDa Yes-associated protein	S 138	71% (17.67)	0.7146	3	3	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0
IPI00216919	YAP1 protein	S 138	71% (17.67)	0.7146	3	3	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0
IPI00304589	182 kDa tankyrase 1-binding protein	S 435	71% (8.74)	0.7143	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00445401	Isoform 2 of HECT, UBA and WWE domain-containing protein 1	S 3802	71% (11.01)	0.7132	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
IPI00456919	Isoform 1 of HECT, UBA and WWE domain-containing protein 1	S 3818	71% (11.01)	0.7132	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
IPI00643153	Isoform 3 of HECT, UBA and WWE domain-containing protein 1	S 3809	71% (11.01)	0.7132	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
IPI00328798	DLNB11 protein	S 991	71% (11.10)	0.7128	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00013215	Origin recognition complex subunit 1	S 199	71% (7.34)	0.7126	1	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00219340	Isoform 2 of Dual specificity protein kinase CLK3	S 9	71% (9.39)	0.7112	4	5	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0
IPI00299507	Condensin complex subunit 2	S 201	71% (8.87)	0.7112	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00386464	ring finger protein 12	S 230	71% (5.08)	0.7111	5	2	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00290094	Splicing factor, arginine/serine-rich 8	S 283	71% (10.03)	0.7107	3	7	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0
IPI00000077	Ribonuclease H1	S 76	71% (10.17)	0.7105	4	5	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	2	0	0	0
IPI00396015	acetyl-Coenzyme A carboxylase alpha isoform 1	S 60	71% (5.07)	0.7104	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00472339	acetyl-Coenzyme A carboxylase alpha isoform 2	S 23	71% (5.07)	0.7104	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00449923	Isoform 1 of Retinoic acid-induced protein 1	S 1135	71% (7.21)	0.7102	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00449924	Isoform 2 of Retinoic acid-induced protein 1	S 1088	71% (7.21)	0.7102	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00647688	198 kDa protein	S 1086	71% (7.21)	0.7102	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00645814	KIAA1187 protein	S 497	71% (10.00)	0.7091	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00654605	Hypothetical protein RPRC1	S 534	71% (10.00)	0.7091	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00017450	Transcription initiation factor IIF alpha subunit	S 307	71% (0.41)	0.7086	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
IPI00004344	Isoform 1 of AF4/FMR2 family member 4	S 487	71% (10.92)	0.7086	2	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00383219	Isoform 2 of AF4/FMR2 family member 4	S 487	71% (10.92)	0.7086	2	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00005139	Isoform 1 of Retinoblastoma-like protein 1	S 762	71% (7.22)	0.7085	1	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00375494	Isoform 2 of Retinoblastoma-like protein 1	S 762	71% (7.22)	0.7085	1	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00164951	P40	S 25	71% (8.80)	0.7077	3	4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0
IPI00298454	40 kDa protein	S 25	71% (8.80)	0.7077	3	4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0
IPI00425560	Isoform 1 of LAP4 protein	S 1439	71% (8.80)	0.7077	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00425566	Isoform 4 of LAP4 protein	S 1463	71% (8.80)	0.7077	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00737644	P40	S 25	71% (8.80)	0.7077	3	4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0
IPI00738062	P40	S 25	71% (8.80)	0.7077	3	4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0
IPI00376317	autoantigen RCD8	S 729	71% (12.31)	0.7067	10	9	1	1	1	1	0	0	2	1	1	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	1	1	1	0	0	0
IPI00477242	Autoantigen	S 729	71% (12.31)	0.7067	10	9	1	1	1	1	0	0	2	1	1	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	1	1	1	0	0	0
IPI00641449	CDNA FLJ46741 fis, clone TRACH3021373, highly similar to Homo sapiens autoantigen	S 459	71% (12.31)	0.7067	10	9	1	1	1	1	0	0	2	1	1	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	1	1	1	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1083	71% (8.77)	0.7064	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
IPI00293331	Ribonucleases P/MRP protein subunit POP1	S 730	71% (7.21)	0.7062	6	6	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00168459	Isoform 2 of Pleckstrin homology-like domain family B member 2	S 203	71% (11.06)	0.7062	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219754	Isoform 2 of Liprin-alpha-1	S 238	71% (7.21)	0.7062	5	2	2	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
IPI00328293	Serine¥/arginine repetitive matrix 1	S 705	71% (11.06)	0.7062	6	4	1	0	0	0	0	0	0	2	2	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00410259	Isoform 1 of Pleckstrin homology-like domain family B member 2	S 203	71% (11.06)	0.7062	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456359	Isoform 1 of Ataxin-2-like protein	S 559	71% (7.21)	0.7062	1	5	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00456361	Isoform 2 of Ataxin-2-like protein	S 559	71% (7.21)	0.7062	1	5	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00456363	Isoform 3 of Ataxin-2-like protein	S 559	71% (7.21)	0.7062	1	5	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00456365	Isoform 4 of Ataxin-2-like protein	S 559	71% (7.21)	0.7062	1	5	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00456367	Isoform 5 of Ataxin-2-like protein	S 559	71% (7.21)	0.7062	1	5	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00456369	Isoform 6 of Ataxin-2-like protein	S 559	71% (7.21)	0.7062	1	5	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00657763	Isoform 3 of Pleckstrin homology-like domain family B member 2	S 230	71% (11.06)	0.7062	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00555902	OCIA domain containing 2 isoform 1	S 154	71% (14.63)	0.7061	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00006093	Protein FAM38A	S 1202	70% (4.97)	0.7042	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00374065	PREDICTED: similar to melanoma inhibitory activity 3 isoform 1	S 1741	70% (12.81)	0.7037	4	2	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00455473	C219-reactive peptide	S 1741	70% (12.81)	0.7037	4	2	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00216546	Isoform 2 of Probable palmitoyltransferase ZDHHC5	S 246	70% (9.85)	0.7016	2	4	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00328272	Isoform 1 of Probable palmitoyltransferase ZDHHC5	S 299	70% (9.85)	0.7016	2	4	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00328089	Kappa B and V(D)J recombination signal sequences binding protein	S 991	70% (6.05)	0.7013	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00221106	splicing factor 3B subunit 2	S 360	70% (9.42)	0.7007	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00607645	Sin3 histone deacetylase corepressor complex component SDS3	S 238	70% (5.48)	0.7006	14	13	2	0	1	2	0	0	1	1	1	1	0	0	1	1	0	3	0	0	1	1	1	2	0	0	2	1	1	1	0	0	2	1	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 395	70% (8.17)	0.7005	3	8	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3	1	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0
IPI00298994	Talin-1	S 423	70% (10.23)	0.7004	5	7	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	4	0	0	0	0	0
IPI00552897	Isoform 1 of Mediator of DNA damage checkpoint protein 1	S 453	70% (8.64)	0.6999	3	4	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00641106	227 kDa protein	S 453	70% (8.64)	0.6999	3	4	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00383597	Isoform A of Anion exchange protein 2	S 113	70% (8.64)	0.6995	2	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00477139	Isoform B1 of Anion exchange protein 2	S 99	70% (8.64)	0.6995	2	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00220835	Protein transport protein Sec61 beta subunit	S 13	70% (9.34)	0.6995	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00221325	Ran-binding protein 2	S 2290	70% (7.21)	0.6986	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00442274	nuclear transcription factor, X-box binding-like 1	S 65	70% (10.22)	0.6982	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00328798	DLNB11 protein	S 88	70% (17.70)	0.6978	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00744888	IMP dehydrogenase/GMP reductase family protein	S 18	70% (6.67)	0.6978	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	S 986	70% (4.85)	0.6969	2	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00002054	132 kDa protein	S 454	70% (4.85)	0.6969	2	3	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00021695	Isoform D of Plasma membrane calcium-transporting ATPase 1	S 1178	70% (4.85)	0.6969	4	5	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00216527	Isoform B of Plasma membrane calcium-transporting ATPase 1	S 1140	70% (4.85)	0.6969	4	5	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00216528	Isoform C of Plasma membrane calcium-transporting ATPase 1	S 1169	70% (4.85)	0.6969	4	5	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00216530	Isoform K of Plasma membrane calcium-transporting ATPase 1	S 1104	70% (4.85)	0.6969	4	5	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00289837	PREDICTED: hypothetical protein LOC114800	S 301	70% (4.85)	0.6969	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00303812	Protein C9orf82	S 312	70% (4.85)	0.6969	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00740155	Hypothetical protein DKFZp686J17211	S 248	70% (4.85)	0.6969	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00021537	Isoform 1 of Opioid growth factor receptor	S 382	70% (8.41)	0.6968	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219301	Myristoylated alanine-rich C-kinase substrate	S 80	70% (8.26)	0.6967	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00293331	Ribonucleases P/MRP protein subunit POP1	S 726	70% (8.55)	0.6953	2	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00016250	Fragile X mental retardation syndrome-related protein 2	S 601	69% (7.28)	0.6946	4	3	0	1	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
IPI00290410	Acidic 82 kDa protein mRNA	S 184	69% (13.99)	0.6944	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00156793	DNA-repair protein complementing XP-C cells	S 882	69% (8.20)	0.6942	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00019870	Isoform Alpha of Caveolin-2	S 20	69% (6.59)	0.6942	5	1	1	0	0	0	0	1	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00386526	caveolin 2 isoform c	S 20	69% (6.59)	0.6942	5	1	1	0	0	0	0	1	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00107113	Isoform 1 of U3 small nucleolar RNA-associated protein 14 homolog A	S 445	69% (6.98)	0.6941	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00163866	PREDICTED: MAX dimerization protein 5 isoform 1	S 645	69% (9.68)	0.6935	5	5	1	1	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00737498	PREDICTED: similar to MAX-interacting protein isoform 5	S 645	69% (9.68)	0.6935	5	5	1	1	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0
IPI00293884	Kinesin-like protein KIF23	S 684	69% (4.78)	0.6930	3	5	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00160348	claspin	S 1325	69% (4.44)	0.6923	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00744511	CLSPN protein	S 1261	69% (4.44)	0.6923	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748041	Claspin homolog	S 1327	69% (4.44)	0.6923	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216044	Isoform 1 of RNA-binding protein Raly	S 228	69% (10.59)	0.6923	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00166153	KIAA0082	S 53	69% (11.36)	0.6923	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00377261	Isoform 1 of Far upstream element-binding protein 3	S 538	69% (11.36)	0.6923	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00643014	retinoblastoma-associated factor 600	S 4611	69% (4.75)	0.6922	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00746934	574 kDa protein	S 4612	69% (4.75)	0.6922	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00291755	Isoform 1 of Nuclear pore membrane glycoprotein 210 precursor	S 1885	69% (6.92)	0.6909	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00643352	nucleoporin 214kDa	S 440	69% (16.65)	0.6906	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00216689	Poly(rC)-binding protein 2	S 173	69% (4.15)	0.6905	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00410330	Isoform 1 of Transcriptional repressor p66 alpha	S 113	69% (5.14)	0.6905	4	2	0	0	0	0	0	0	1	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00444526	Isoform 2 of Transcriptional repressor p66 alpha	S 113	69% (5.14)	0.6905	4	2	0	0	0	0	0	0	1	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00478128	GATA zinc finger domain containing 2A	S 132	69% (5.14)	0.6905	4	2	0	0	0	0	0	0	1	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00019205	Protein C14orf4	S 639	69% (11.25)	0.6871	5	2	1	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00216348	Isoform 2C of Cytoplasmic dynein 1 intermediate chain 2	S 81	69% (12.20)	0.6865	12	14	1	1	1	0	0	0	1	1	1	0	0	0	1	2	3	0	0	0	1	4	1	0	0	0	1	2	1	0	0	0	1	1	2	0	0	0
IPI00000494	60S ribosomal protein L5	S 186	69% (4.67)	0.6862	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00470461	Hypothetical protein DKFZp686L2367	S 336	69% (8.30)	0.6857	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00187011	Zinc finger CCCH-type domain-containing protein C19orf7	S 1267	69% (4.64)	0.6855	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00218486	Isoform 1 of Protein phosphatase Slingshot homolog 3	S 494	68% (4.64)	0.6839	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00465439	Fructose-bisphosphate aldolase A	S 38	68% (8.17)	0.6839	3	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00019870	Isoform Alpha of Caveolin-2	S 18	68% (10.14)	0.6836	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
IPI00386526	caveolin 2 isoform c	S 18	68% (10.14)	0.6836	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
IPI00376317	autoantigen RCD8	S 879	68% (10.41)	0.6834	7	2	0	1	1	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00477242	Autoantigen	S 879	68% (10.41)	0.6834	7	2	0	1	1	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641449	CDNA FLJ46741 fis, clone TRACH3021373, highly similar to Homo sapiens autoantigen	S 609	68% (10.41)	0.6834	7	2	0	1	1	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00298696	Treacle protein	S 800	68% (9.72)	0.6829	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00747047	Treacle major isoform	S 877	68% (9.72)	0.6829	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00472779	Ankyrin-3	S 2179	68% (7.97)	0.6808	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00478210	ankyrin 3 isoform 1	S 2179	68% (7.97)	0.6808	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00009866	Isoform 1 of Keratin, type I cytoskeletal 13	S 147	68% (9.42)	0.6804	1	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00335641	Isoform 1 of MKL/myocardin-like protein 2	S 850	68% (9.42)	0.6804	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00409671	DEAD box polypeptide 42 protein	S 96	68% (9.42)	0.6804	4	6	0	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0
IPI00418489	Isoform 4 of MKL/myocardin-like protein 2	S 811	68% (9.42)	0.6804	3	1	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00003843	Isoform A1 of Tight junction protein ZO-2	S 1156	68% (9.42)	0.6804	9	10	1	2	0	0	1	1	1	1	0	1	0	0	1	0	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	1	1	2	0	0
IPI00329638	Isoform 1 of Mitogen-activated protein kinase kinase kinase MLT	S 594	68% (9.42)	0.6804	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0
IPI00016780	Isoform 1 of PR domain zinc finger protein 2	S 1265	68% (11.12)	0.6804	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00100980	EH-domain-containing protein 2	S 470	68% (8.26)	0.6803	2	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00165547	Isoform 2 of Phosphatidylinositol 4-kinase beta	S 266	68% (8.26)	0.6803	2	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00556619	TXNDC14 protein	S 250	68% (8.26)	0.6803	13	15	1	0	1	1	0	0	0	0	0	2	2	0	2	0	0	2	2	0	1	1	0	1	0	0	1	0	2	2	1	0	1	0	2	2	1	0
IPI00005036	RNA-binding protein 5	S 78	68% (8.26)	0.6803	4	3	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00337736	Isoform 2 of Kinectin	S 242	68% (9.42)	0.6802	5	3	3	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00022970	Nucleoprotein TPR	S 1677	68% (11.10)	0.6794	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00291802	Isoform 3 of LIM domain only protein 7	S 533	68% (11.10)	0.6794	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00169345	Protein NEDD1	S 516	68% (11.10)	0.6794	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00019996	modulator of estrogen induced transcription isoform b	S 276	68% (6.84)	0.6790	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00171749	modulator of estrogen induced transcription isoform a	S 294	68% (6.84)	0.6790	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00154915	Isoform 1 of Partitioning-defective 3 homolog	S 144	68% (12.31)	0.6785	8	6	1	1	0	0	0	0	2	0	1	0	1	0	0	1	1	0	0	0	1	1	0	0	0	0	0	1	0	0	0	1	1	0	1	0	0
IPI00179063	Isoform 4 of Partitioning-defective 3 homolog	S 144	68% (12.31)	0.6785	8	6	1	1	0	0	0	0	2	0	1	0	1	0	0	1	1	0	0	0	1	1	0	0	0	0	0	1	0	0	0	1	1	0	1	0	0
IPI00301595	Isoform 2 of Partitioning-defective 3 homolog	S 144	68% (12.31)	0.6785	8	6	1	1	0	0	0	0	2	0	1	0	1	0	0	1	1	0	0	0	1	1	0	0	0	0	0	1	0	0	0	1	1	0	1	0	0
IPI00301597	Par-3 partitioning defective 3 homolog	S 144	68% (12.31)	0.6785	8	6	1	1	0	0	0	0	2	0	1	0	1	0	0	1	1	0	0	0	1	1	0	0	0	0	0	1	0	0	0	1	1	0	1	0	0
IPI00185326	Isoform 1 of JmjC domain-containing histone demethylation protein 1B	S 914	68% (9.38)	0.6783	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00455183	F-box and leucine-rich repeat protein 10 isoform b	S 845	68% (9.38)	0.6783	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00737594	Isoform 3 of JmjC domain-containing histone demethylation protein 1B	S 902	68% (9.38)	0.6783	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00747262	Isoform 2 of JmjC domain-containing histone demethylation protein 1B	S 917	68% (9.38)	0.6783	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00002579	RB-binding protein	S 87	68% (8.22)	0.6781	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00030915	Ubiquitin carboxyl-terminal hydrolase 8	S 719	68% (8.22)	0.6781	2	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00033907	Anaphase-promoting complex subunit 1	S 51	68% (8.22)	0.6781	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00294728	Protein DmX-like 1	S 918	68% (8.22)	0.6781	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00302149	Isoform 1 of Polyhomeotic-like protein 3	S 761	68% (8.22)	0.6781	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00464999	Hypothetical protein DKFZp686D22141	S 642	68% (8.22)	0.6781	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00658100	Isoform 2 of Polyhomeotic-like protein 3	S 742	68% (8.22)	0.6781	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00013933	Isoform DPI of Desmoplakin	S 2549	68% (8.21)	0.6778	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00397700	Isoform 2 of PHD finger protein 6	S 156	68% (8.21)	0.6778	4	2	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00552149	PHD finger protein 6	S 156	68% (8.21)	0.6778	4	2	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00021766	Isoform 1 of Reticulon-4	S 182	68% (8.21)	0.6778	7	7	0	0	0	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1	2	0	0	0	0	0	1	0	0	0	1	1	0	0	0
IPI00478442	reticulon 4 isoform D	S 182	68% (8.21)	0.6778	7	7	0	0	0	0	0	0	1	1	1	0	0	0	1	1	1	1	0	0	1	1	2	0	0	0	0	0	1	0	0	0	0	1	1	0	0
IPI00021786	RAF proto-oncogene serine/threonine-protein kinase	S 257	68% (11.06)	0.6773	13	11	1	2	1	0	0	0	2	0	1	1	0	0	1	1	1	2	0	0	1	0	1	1	0	0	2	1	1	1	0	0	1	0	2	0	0
IPI00022450	TBC1 domain family member 5	S 43	68% (11.06)	0.6773	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00002186	Brefeldin A-inhibited guanine nucleotide-exchange protein 2	S 1513	68% (6.67)	0.6771	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00293845	275 kDa protein	S 1875	68% (6.67)	0.6771	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00375454	Isoform 2 of Telomere-associated protein RIF1	S 1875	68% (6.67)	0.6771	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00477805	Isoform 1 of Telomere-associated protein RIF1	S 1873	68% (6.67)	0.6771	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00427522	Isoform 1 of Peroxisome proliferator-activated receptor-binding protein	S 1155	68% (9.34)	0.6761	4	4	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00008529	60S acidic ribosomal protein P2	S 17	68% (9.34)	0.6761	2	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00000192	Isoform F of SON protein	S 1780	68% (8.26)	0.6755	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00217930	Isoform J of SON protein	S 1780	68% (8.26)	0.6755	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00218617	SON protein	S 1742	68% (8.26)	0.6755	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00218619	Isoform C of SON protein	S 1780	68% (8.26)	0.6755	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00218620	Isoform D of SON protein	S 1780	68% (8.26)	0.6755	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00218622	Isoform G of SON protein	S 1740	68% (8.26)	0.6755	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00218624	Isoform I of SON protein	S 1820	68% (8.26)	0.6755	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00382737	SON DNA-binding protein isoform G	S 1740	68% (8.26)	0.6755	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00401958	SON DNA-binding protein isoform C	S 1780	68% (8.26)	0.6755	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00477401	F-box/WD-repeat protein 9	S 59	68% (11.01)	0.6751	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216540	Isoform 4 of Protein kinase C-binding protein 1	S 380	68% (11.01)	0.6751	4	4	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00418316	RACK7 isoform e	S 776	68% (11.01)	0.6751	4	4	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00640598	protein kinase C binding protein 1 isoform a	S 776	68% (11.01)	0.6751	4	4	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00718938	Isoform 6 of Protein kinase C-binding protein 1	S 611	68% (11.01)	0.6751	4	4	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00719682	Isoform 7 of Protein kinase C-binding protein 1	S 775	68% (11.01)	0.6751	4	4	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00740207	RACK7 isoform j	S 751	68% (11.01)	0.6751	4	4	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00741204	RACK7 isoform f	S 751	68% (11.01)	0.6751	4	4	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00748579	RACK7 isoform d	S 751	68% (11.01)	0.6751	4	4	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00218775	FK506-binding protein 5	S 118	67% (6.63)	0.6749	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00743671	51 kDa protein	S 118	67% (6.63)	0.6749	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00004344	Isoform 1 of AF4/FMR2 family member 4	S 212	67% (6.63)	0.6749	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00169307	Rho GTPase activating protein 21	S 880	67% (6.63)	0.6749	4	3	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
IPI00383219	Isoform 2 of AF4/FMR2 family member 4	S 212	67% (6.63)	0.6749	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00217686	Putative rRNA methyltransferase 3	S 335	67% (9.11)	0.6746	4	1	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00008179	Isoform 1 of Sulfotransferase family cytosolic 2B member 1	S 350	67% (10.23)	0.6740	4	8	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	1	2	0
IPI00328142	Isoform 2 of Sulfotransferase family cytosolic 2B member 1	S 335	67% (10.23)	0.6740	4	8	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	1	2	0
IPI00295457	myosin phosphatase-Rho interacting protein isoform 1	S 362	67% (4.08)	0.6739	2	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
IPI00216633	Isoform Short of Dematin	S 90	67% (8.14)	0.6737	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00292290	Isoform Long of Dematin	S 90	67% (8.14)	0.6737	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00024773	Isoform 1 of FERM, RhoGEF and pleckstrin domain-containing protein 1	S 872	67% (8.14)	0.6737	4	5	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0
IPI00746455	Isoform 2 of FERM, RhoGEF and pleckstrin domain-containing protein 1	S 903	67% (8.14)	0.6737	4	5	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0
IPI00018370	Isoform 2 of Supervillin	S 63	67% (8.14)	0.6737	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00179713	insulin-like growth factor 2 mRNA binding protein 2 isoform a	S 162	67% (8.14)	0.6737	7	14	0	0	2	1	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	1	3	0	0	0	0	1	2	0	0	0	1	3	3	0	0	0
IPI00180983	insulin-like growth factor 2 mRNA binding protein 2 isoform b	S 162	67% (8.14)	0.6737	7	14	0	0	2	1	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	1	3	0	0	0	0	1	2	0	0	0	1	3	3	0	0	0
IPI00220901	TBC1 domain family, member 4	S 570	67% (8.14)	0.6737	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00304589	182 kDa tankyrase 1-binding protein	S 1715	67% (8.14)	0.6737	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00433194	EHBP1 protein	S 393	67% (8.14)	0.6737	3	2	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00442150	CDNA FLJ16420 fis, clone BRACE3003053. (Fragment)	S 131	67% (8.14)	0.6737	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00743914	66 kDa protein	S 161	67% (8.14)	0.6737	7	14	0	0	2	1	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	1	3	0	0	0	0	1	2	0	0	0	1	3	3	0	0	0
IPI00016780	Isoform 1 of PR domain zinc finger protein 2	S 1504	67% (6.59)	0.6727	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00215948	Isoform 1 of Alpha-1 catenin	S 507	67% (6.59)	0.6727	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00401611	PREDICTED: RW1 protein isoform 1	S 1871	67% (6.59)	0.6727	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00413144	Hypothetical protein DKFZp686B18208	S 838	67% (6.59)	0.6727	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00455806	paternally expressed 10 isoform RF1	S 313	67% (6.59)	0.6727	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022143	Isoform 1 of Protein FAM62A	S 1104	67% (4.44)	0.6713	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00016670	FLJ20625 protein	S 26	67% (4.44)	0.6713	4	3	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1
IPI00025721	COP9 signalosome complex subunit 3	S 409	67% (10.17)	0.6713	2	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00004472	Isoform 1 of Serine/threonine-protein kinase WNK1	S 2012	67% (8.08)	0.6706	5	5	3	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00397590	Isoform 2 of Serine/threonine-protein kinase WNK1	S 1766	67% (8.08)	0.6706	5	5	3	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00747266	226 kDa protein	S 1766	67% (8.08)	0.6706	5	5	3	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00748509	251 kDa protein	S 2012	67% (8.08)	0.6706	5	5	3	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00023532	Hypothetical protein DKFZp564A2416	S 195	67% (7.49)	0.6704	5	4	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0
IPI00444371	WD repeat domain 44 protein	S 344	67% (6.55)	0.6704	5	5	1	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00552345	WD repeat domain 44	S 344	67% (6.55)	0.6704	5	5	1	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00747740	Hypothetical protein DKFZp686F0572	S 346	67% (6.55)	0.6704	5	5	1	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00185371	CDNA FLJ40432 fis, clone TESTI2039227	S 42	67% (6.86)	0.6696	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00300384	Receptor tyrosine-protein kinase erbB-2 precursor	S 1051	67% (4.32)	0.6693	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00654851	erbB-2 isoform b	S 1021	67% (4.32)	0.6693	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00021076	Isoform Long of Plakophilin-4	S 406	67% (6.53)	0.6693	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00334400	Isoform Short of Plakophilin-4	S 406	67% (6.53)	0.6693	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00747119	plakophilin 4 isoform b	S 406	67% (6.53)	0.6693	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00031627	DNA-directed RNA polymerase II largest subunit	S 1968	67% (16.15)	0.6692	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00166512	stromal interaction molecule 1 precursor	S 667	67% (6.47)	0.6657	4	1	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00215877	Isoform Short of Adenomatous polyposis coli protein	S 1655	67% (6.47)	0.6657	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00218696	Isoform 4 of Caldesmon	S 534	67% (6.47)	0.6657	8	14	0	1	0	0	0	0	1	1	1	0	0	0	1	1	1	1	0	0	1	1	1	1	0	0	1	1	1	1	0	1	1	1	1	1	1	0
IPI00292000	Isoform 1 of U4/U6 small nuclear ribonucleoprotein Prp31	S 439	67% (6.47)	0.6657	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00299063	Stromal interaction molecule 1 precursor	S 667	67% (6.47)	0.6657	4	1	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00333771	Isoform 5 of Caldesmon	S 528	67% (6.47)	0.6657	8	14	0	1	0	0	0	0	1	1	1	0	0	0	1	1	1	1	0	0	1	1	1	1	0	0	1	1	1	1	0	1	1	1	1	1	1	0
IPI00478979	PREDICTED: similar to SLIT-ROBO Rho GTPase-activating protein 2	S 366	67% (6.47)	0.6657	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00479125	SLIT-ROBO Rho GTPase-activating protein 2	S 795	67% (6.47)	0.6657	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00657721	55 kDa protein	S 433	67% (6.47)	0.6657	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00464978	Insulin receptor substrate 2 insertion mutant (Fragment)	S 1205	67% (6.47)	0.6657	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00425560	Isoform 1 of LAP4 protein	S 1140	67% (12.81)	0.6656	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00425566	Isoform 4 of LAP4 protein	S 1140	67% (12.81)	0.6656	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00004388	Tyrosine-protein phosphatase non-receptor type 21	S 589	66% (10.61)	0.6649	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00028122	Isoform 1 of PC4 and SFRS1-interacting protein	S 177	66% (9.97)	0.6646	3	5	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00329572	Protein kinase C and casein kinase substrate in neurons protein 3	S 345	66% (6.67)	0.6646	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00008283	Zinc finger protein 106 homolog	S 1279	66% (9.12)	0.6643	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022145	Nuclear ubiquitous casein and cyclin-dependent kinases substrate	S 132	66% (9.11)	0.6639	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00382733	Transcription repressor	S 84	66% (9.11)	0.6639	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00645814	KIAA1187 protein	S 773	66% (11.75)	0.6637	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00654605	Hypothetical protein RPRC1	S 811	66% (11.75)	0.6637	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00291946	Ubiquitin carboxyl-terminal hydrolase 10	S 370	66% (13.38)	0.6634	4	3	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00299547	Neutrophil gelatinase-associated lipocalin precursor	S 83	66% (6.60)	0.6631	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00643623	Lipocalin 2	S 83	66% (6.60)	0.6631	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00743064	23 kDa protein	S 83	66% (6.60)	0.6631	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00002478	Isoform B of Endothelin-converting enzyme 1	S 34	66% (7.94)	0.6630	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216760	Isoform C of Endothelin-converting enzyme 1	S 18	66% (7.94)	0.6630	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216762	Isoform D of Endothelin-converting enzyme 1	S 31	66% (7.94)	0.6630	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022460	Zinc finger protein 592	S 691	66% (7.94)	0.6630	6	6	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00335634	Isoform Beta of Paxillin	S 321	66% (3.44)	0.6622	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022661	Isoform Delta of Poliovirus receptor-related protein 2 precursor	S 433	66% (6.38)	0.6606	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00219726	Isoform 2AC of Catenin delta-1	S 810	66% (15.10)	0.6597	3	3	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00219728	Isoform 2A of Catenin delta-1	S 804	66% (15.10)	0.6597	3	3	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00304589	182 kDa tankyrase 1-binding protein	S 899	66% (5.55)	0.6594	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00026256	Filaggrin	S 1611	66% (5.85)	0.6593	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00479145	Keratin, type I cytoskeletal 19	S 72	66% (11.36)	0.6589	6	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00168350	CDNA FLJ90669 fis, clone PLACE1005519, moderately similar to Homo sapiens STE20-like kinase 3 (mst-	S 304	66% (6.74)	0.6577	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00182383	Serine/threonine protein kinase MST4a	S 242	66% (6.74)	0.6577	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00292827	Serine/threonine-protein kinase MST4	S 304	66% (6.74)	0.6577	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00297191	CRSP complex subunit 2	S 1136	66% (4.67)	0.6576	+ 1	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00102752	Isoform 1 of Putative RNA-binding protein 15	S 767	66% (4.08)	0.6566	+ 1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220716	Isoform 2 of Putative RNA-binding protein 15	S 767	66% (4.08)	0.6566	+ 1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220717	Isoform 3 of Putative RNA-binding protein 15	S 767	66% (4.08)	0.6566	+ 1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00023283	Isoform 2 of Titin	S 20332	66% (4.31)	0.6565	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00027172	Isoform Long of Restin	S 200	66% (8.96)	0.6559	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00217113	Isoform Short of Restin	S 200	66% (8.96)	0.6559	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00554788	Keratin, type I cytoskeletal 18	S 330	66% (6.03)	0.6555	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00218753	Isoform 3 of DNA topoisomerase 2-alpha	S 1507	66% (2.99)	0.6553	+ 1	+ 1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218754	Isoform 4 of DNA topoisomerase 2-alpha	S 1552	66% (2.99)	0.6553	+ 1	+ 1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00414101	Isoform 2 of DNA topoisomerase 2-alpha	S 1498	66% (2.99)	0.6553	+ 1	+ 1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00478232	Isoform 1 of DNA topoisomerase 2-alpha	S 1508	66% (2.99)	0.6553	+ 1	+ 1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00549473	PREDICTED: similar to Forkhead box protein K1 (Myocyte nuclear factor) (MNF) isoform 1	S 309	66% (9.87)	0.6552	0	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00556645	forkhead box K1	S 472	66% (9.87)	0.6552	0	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00337530	Isoform 1 of RalBP1-associated Eps domain-containing protein 1	S 508	65% (14.34)	0.6547	+ 1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00337532	Isoform 3 of RalBP1-associated Eps domain-containing protein 1	S 507	65% (14.34)	0.6547	+ 1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00329791	Probable ATP-dependent RNA helicase DDX46	S 296	65% (8.26)	0.6531	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00657954	118 kDa protein	S 296	65% (8.26)	0.6531	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00007411	A-kinase anchor protein 11	S 1240	65% (6.59)	0.6516	+ 5	+ 5	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00161614	A-kinase anchor protein 11 isoform 2	S 1240	65% (6.59)	0.6516	+ 5	+ 5	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00181359	SFRS2-interacting protein	S 487	65% (8.87)	0.6511	+ 4	+ 4	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00746412	129 kDa protein	S 487	65% (8.87)	0.6511	+ 4	+ 4	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00029795	Isoform 4 of Nuclear factor 1 C-type	S 333	65% (9.68)	0.6509	0	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00218035	Isoform 1 of Nuclear factor 1 C-type	S 324	65% (9.68)	0.6509	0	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00218037	Isoform 2 of Nuclear factor 1 C-type	S 324	65% (9.68)	0.6509	0	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00218039	Isoform 3 of Nuclear factor 1 C-type	S 300	65% (9.68)	0.6509	0	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00218041	Isoform 5 of Nuclear factor 1 C-type	S 333	65% (9.68)	0.6509	0	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00045914	Msx2-interacting protein	S 1918	65% (6.74)	0.6503	+ 2	+ 2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00170770	PHD finger protein 3	S 1184	65% (8.80)	0.6473	+ 2	+ 2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00413734	Isoform 6 of Transcriptional regulator ATRX	S 26	65% (14.32)	0.6470	+ 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413734	Isoform 6 of Transcriptional regulator ATRX	S 25	65% (14.32)	0.6470	+ 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00376229	Isoform 1 of Phosphofurin acidic cluster sorting protein 1	S 531	65% (8.26)	0.6462	+ 1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456262	Isoform 2 of Phosphofurin acidic cluster sorting protein 1	S 531	65% (8.26)	0.6462	+ 1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00028392	specifically androgen-regulated protein	S 462	65% (9.55)	0.6462	+ 1	+ 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00384861	Isoform 1 of ARF GTPase-activating protein GIT1	S 410	65% (8.77)	0.6459	+ 3	+ 2	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00045856	CDNA FLJ14717 fis, clone NT2RP3001239, moderately similar to MICROTUBULE-ASSOCIATED PROTEIN 1	S 585	64% (8.74)	0.6441	+ 2	+ 1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00296485	BPY2 interacting protein 1	S 585	64% (8.74)	0.6441	+ 2	+ 1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00554469	Isoform 2 of Mitochondrial inner membrane protein	S 379	64% (7.59)	0.6439	+ 1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00032358	Nuclear envelope pore membrane protein POM 121	S 190	64% (8.72)	0.6438	+ 1	+ 2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00555819	Similar to Nuclear envelope pore membrane protein POM 121	S 190	64% (8.72)	0.6438	+ 1	+ 2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00294391	Cdc42 effector protein 3	S 108	64% (8.73)	0.6435	0	+ 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0
IPI00063605	jub, ajuba homolog isoform 1	S 137	64% (11.06)	0.6431	+ 2	+ 5	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0
IPI00419373	Isoform 1 of Heterogeneous nuclear ribonucleoprotein A3	S 355	64% (11.06)	0.6431	+ 1	+ 2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00187011	Zinc finger CCCH-type domain-containing protein C19orf7	S 808	64% (8.87)	0.6424	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00167053	Isoform 1b of Oxysterol-binding protein-related protein 3	S 251	64% (6.05)	0.6415	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00169296	Isoform 2b of Oxysterol-binding protein-related protein 3	S 251	64% (6.05)	0.6415	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00017450	Transcription initiation factor IIF alpha subunit	S 221	64% (6.04)	0.6414	+ 3	+ 1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00014266	Isoform 1 of Bromodomain-containing protein 3	S 563	64% (8.68)	0.6410	+ 2	+ 5	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0
IPI00003842	Isoform 1 of Microtubule-associated protein 2	S 738	64% (11.01)	0.6409	+ 3	+ 1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00010728	203 kDa protein	S 738	64% (11.01)	0.6409	+ 3	+ 1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00472094	Isoform 3 of Microtubule-associated protein 2	S 734	64% (11.01)	0.6409	+ 3	+ 1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00383396	Isoform 1 of Autophagy-related protein 9A	S 654	64% (3.98)	0.6408	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00513803	Mitogen-activated protein kinase kinase kinase 2	S 163	64% (3.98)	0.6408	+ 1	+ 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1537	64% (8.80)	0.6385	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00164672	mRNA decapping enzyme 1A	S 319	64% (9.12)	0.6381	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00552897	Isoform 1 of Mediator of DNA damage checkpoint protein 1	S 1086	64% (5.97)	0.6370	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00641106	227 kDa protein	S 1086	64% (5.97)	0.6370	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00006079	Isoform 1 of Bcl-2-associated transcription factor 1	S 285	64% (4.97)	0.6366	+ 2	+ 5	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0
IPI00413671	Isoform 2 of Bcl-2-associated transcription factor 1	S 283	64% (4.97)	0.6366	+ 2	+ 5	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0
IPI00413672	Isoform 3 of Bcl-2-associated transcription factor 1	S 283	64% (4.97)	0.6366	+ 2	+ 5	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0
IPI00297191	CRSP complex subunit 2	S 986	64% (6.03)	0.6365	+ 2	+ 1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00411614	WD repeat and HMG-box DNA-binding protein 1	S 407	64% (10.28)	0.6365	+ 1	+ 2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00513835	WD repeat and HMG-box DNA binding protein 1 isoform 2	S 284	64% (10.28)	0.6365	+ 1	+ 2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00748353	126 kDa protein	S 407	64% (10.28)	0.6365	+ 1	+ 2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00307591	zinc finger protein 609	S 413	63% (10.13)	0.6335	1	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
IPI00010414	PDZ and LIM domain protein 1	S 129	63% (9.42)	0.6314	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0
IPI00004838	Isoform Crk-II of Proto-oncogene C-crk	S 83	63% (9.42)	0.6312	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00009659	Protein C20orf77	S 164	63% (9.42)	0.6312	2	3	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00305469	v-crk sarcoma virus CT10 oncogene homolog isoform b	S 83	63% (9.42)	0.6312	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00399054	v-crk sarcoma virus CT10 oncogene homolog isoform a	S 83	63% (9.42)	0.6312	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00065931	A-kinase anchor protein 13 isoform 1	S 1606	63% (10.17)	0.6306	4	8	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0
IPI00554521	Ferritin heavy chain	S 182	63% (7.35)	0.6305	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00012079	Eukaryotic translation initiation factor 4B	S 424	63% (10.83)	0.6303	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005792	poly(A) binding protein, nuclear 1	S 90	63% (4.70)	0.6300	1	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00414963	Isoform 2 of Polyadenylate-binding protein 2	S 89	63% (4.70)	0.6300	1	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00513791	dedicator of cytokinesis 7	S 896	63% (8.22)	0.6297	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00006213	Pericentriol material 1	S 432	63% (5.84)	0.6295	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00029079	GMP synthase	S 332	63% (5.84)	0.6295	2	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00029601	Src substrate cortactin	S 418	63% (5.84)	0.6295	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0
IPI00062884	cortactin isoform b	S 380	63% (5.84)	0.6295	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0
IPI00217121	Protein C19orf21	S 395	63% (5.84)	0.6295	1	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00456359	Isoform 1 of Ataxin-2-like protein	S 558	63% (5.84)	0.6295	2	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456361	Isoform 2 of Ataxin-2-like protein	S 558	63% (5.84)	0.6295	2	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456363	Isoform 3 of Ataxin-2-like protein	S 558	63% (5.84)	0.6295	2	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456365	Isoform 4 of Ataxin-2-like protein	S 558	63% (5.84)	0.6295	2	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456367	Isoform 5 of Ataxin-2-like protein	S 558	63% (5.84)	0.6295	2	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456369	Isoform 6 of Ataxin-2-like protein	S 558	63% (5.84)	0.6295	2	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746419	IMP dehydrogenase/GMP reductase family protein	S 1292	63% (5.84)	0.6295	11	12	1	1	1	1	1	1	0	0	1	1	0	1	1	0	0	0	0	1	0	1	1	0	1	1	1	0	1	0	1	0	1	1	2	1	0	0
IPI00746806	CTTN protein	S 380	63% (5.84)	0.6295	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0
IPI00410079	Cerebral protein-10	S 46	63% (9.38)	0.6291	3	12	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	3	0	1	1	0	0	2	2	1	1
IPI00001738	Nuclear pore complex protein Nup88	S 50	63% (10.14)	0.6289	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00375330	wings apart-like homolog	S 223	63% (8.73)	0.6276	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00412441	Hypothetical protein KIAA0261	S 308	63% (8.73)	0.6276	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00744918	FOE	S 267	63% (8.73)	0.6276	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00011593	Fos-related antigen 2	S 16	63% (9.34)	0.6267	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00029019	Ubiquitin-associated protein 2-like	S 455	63% (9.34)	0.6267	8	8	2	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	2	1	0	0	0	2	0	0	0	0	2	1	0	0	0	0	0
IPI00412535	115 kDa protein	S 455	63% (9.34)	0.6267	8	8	2	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	2	1	0	0	0	2	0	0	0	0	2	1	0	0	0	0	0
IPI00444371	WD repeat domain 44 protein	S 161	63% (9.34)	0.6267	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00514856	Ubiquitin associated protein 2-like	S 453	63% (9.34)	0.6267	8	8	2	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	2	1	0	0	0	2	0	0	0	0	2	1	0	0	0	0	0
IPI00552345	WD repeat domain 44	S 161	63% (9.34)	0.6267	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00747740	Hypothetical protein DKFZp686F0572	S 161	63% (9.34)	0.6267	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00006684	Isoform 4 of Apoptosis inhibitor 5	S 462	63% (7.28)	0.6267	3	4	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	1	0	0	0	0
IPI00554742	Isoform 2 of Apoptosis inhibitor 5	S 462	63% (7.28)	0.6267	3	4	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	1	0	0	0	0
IPI00555572	Isoform 1 of Apoptosis inhibitor 5	S 462	63% (7.28)	0.6267	3	4	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	1	0	0	0	0
IPI00003842	Isoform 1 of Microtubule-associated protein 2	S 610	63% (6.92)	0.6262	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00010728	203 kDa protein	S 610	63% (6.92)	0.6262	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00472094	Isoform 3 of Microtubule-associated protein 2	S 606	63% (6.92)	0.6262	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00152007	Tumor endothelial marker 4	S 142	63% (7.27)	0.6261	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00399254	OTU domain containing 4 protein isoform 1	S 940	63% (21.02)	0.6253	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00297211	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A member 5	S 116	62% (3.44)	0.6247	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00657687	Isoform 1 of Actin-binding protein anillin	S 661	62% (8.38)	0.6244	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
IPI00743594	124 kDa protein	S 662	62% (8.38)	0.6244	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
IPI00554788	Keratin, type I cytoskeletal 18	S 51	62% (9.38)	0.6234	9	7	0	0	0	2	0	0	0	0	2	2	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	1	0	1	0	0	1	2	0	0
IPI00449923	Isoform 1 of Retinoic acid-induced protein 1	S 1121	62% (5.60)	0.6229	1	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
IPI00449924	Isoform 2 of Retinoic acid-induced protein 1	S 1074	62% (5.60)	0.6229	1	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
IPI00647688	198 kDa protein	S 1072	62% (5.60)	0.6229	1	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
IPI00289649	Tyrosine-protein phosphatase non-receptor type 3	S 395	62% (10.68)	0.6226	6	1	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00480052	protein tyrosine phosphatase, non-receptor type 3	S 395	62% (10.68)	0.6226	6	1	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00647108	Tyrosine phosphatase	S 395	62% (10.68)	0.6226	6	1	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00004388	Tyrosine-protein phosphatase non-receptor type 21	S 590	62% (7.21)	0.6226	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00013444	Zinc finger protein 40	S 537	62% (7.21)	0.6226	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00152692	Probable D-tyrosyl-tRNA(Tyr) deacylase	S 205	62% (7.21)	0.6226	3	4	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00174962	Molecule interacting with Rab13	S 621	62% (7.21)	0.6226	5	4	0	1	0	0	0	0	0	1	1	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0
IPI00178203	Some homology with holliday junction DNA helicase RUVB like	S 260	62% (7.21)	0.6226	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00180764	Histone acetyltransferase MYST2	S 57	62% (7.21)	0.6226	3	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220835	Protein transport protein Sec61 beta subunit	S 12	62% (7.21)	0.6226	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00297160	CD44 antigen isoform 4 precursor	S 337	62% (7.21)	0.6226	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
IPI00305064	Isoform CD44 of CD44 antigen precursor	S 718	62% (7.21)	0.6226	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
IPI00333420	Serine/threonine-protein kinase SRPK2	S 496	62% (7.21)	0.6226	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00395568	Isoform 1 of PHD finger protein 6	S 155	62% (7.21)	0.6226	18	7	0	0	0	5	0	0	1	0	1	4	0	0	0	1	0	5	1	0	0	1	0	1	0	0	0	0	1	2	0	0	0	0	2	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00396412	SFRS protein kinase 2 isoform a	S 507	62% (7.21)	0.6226	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00414657	CTF18, chromosome transmission fidelity factor 18 homolog	S 63	62% (7.21)	0.6226	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00418465	CD44 antigen isoform 2 precursor	S 675	62% (7.21)	0.6226	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
IPI00419219	CD44 antigen isoform 3 precursor	S 469	62% (7.21)	0.6226	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
IPI00643352	nucleoporin 214kDa	S 657	62% (7.21)	0.6226	2	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 857	62% (7.21)	0.6226	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00029273	Isoform 1 of Hepatocyte growth factor receptor precursor	S 988	62% (8.22)	0.6225	5	12	0	1	0	0	0	0	0	1	0	1	0	0	0	1	0	1	0	0	1	2	0	0	1	0	0	1	0	0	1	0	1	1	1	2	1	0
IPI00294528	Isoform 2 of Hepatocyte growth factor receptor precursor	S 1006	62% (8.22)	0.6225	5	12	0	1	0	0	0	0	0	1	0	1	0	0	0	1	0	1	0	0	1	2	0	0	1	0	0	1	0	0	1	0	1	1	1	2	1	0
IPI00298696	Treacle protein	S 597	62% (7.07)	0.6220	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00747047	Treacle major isoform	S 674	62% (7.07)	0.6220	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00738937	PREDICTED: hypothetical protein LOC57479 isoform 1	S 575	62% (3.29)	0.6213	3	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00745321	PREDICTED: similar to CG17233-PA, isoform A isoform 5	S 566	62% (3.29)	0.6213	3	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00157442	Rho guanine nucleotide exchange factor 11	S 251	62% (4.15)	0.6208	2	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00377085	Rho guanine nucleotide exchange factor (GEF) 11 isoform 2	S 291	62% (4.15)	0.6208	2	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514608	172 kDa protein	S 290	62% (4.15)	0.6208	2	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010865	Casein kinase II subunit beta	S 205	62% (5.07)	0.6184	10	15	0	0	0	1	3	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	1	3	0	0	0	0	1	3	0	0	0	1	4	1
IPI00640088	27 kDa protein	S 224	62% (5.07)	0.6184	10	15	0	0	0	1	3	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	1	3	0	0	0	0	1	3	0	0	0	1	4	1
IPI00175169	Isoform 1 of ADP-ribosylation factor GTPase-activating protein 1	S 363	62% (8.26)	0.6176	5	1	1	0	0	0	0	0	0	0	1	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00217354	Isoform 2 of ADP-ribosylation factor GTPase-activating protein 1	S 371	62% (8.26)	0.6176	5	1	1	0	0	0	0	0	0	0	1	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00301294	Protein C2orf17	S 138	62% (8.26)	0.6176	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00376317	autoantigen RCD8	S 723	62% (8.26)	0.6176	9	10	2	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	2	2	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0
IPI00477242	Autoantigen	S 723	62% (8.26)	0.6176	9	10	2	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	2	2	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0
IPI00641449	CDNA FLJ46741 fis, clone TRACH3021373, highly similar to Homo sapiens autoantigen	S 453	62% (8.26)	0.6176	9	10	2	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	2	2	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0
IPI00019551	Pleckstrin homology-like domain family A member 2 (Fragment)	S 138	62% (2.81)	0.6173	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00303722	Hypothetical protein FLJ14668	S 46	62% (2.57)	0.6173	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00013076	Isoform 1 of FGFR1 oncogene partner	S 152	62% (6.04)	0.6172	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00305013	Isoform 2 of FGFR1 oncogene partner	S 152	62% (6.04)	0.6172	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00174025	Isoform 1 of Dynamin-binding protein	S 1351	62% (13.17)	0.6157	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00027505	Integrin alpha-V precursor	S 1046	62% (1.02)	0.6156	4	6	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	2	0	0
IPI00023780	Isoform 2 of DnaJ homolog subfamily C member 5	S 15	62% (8.22)	0.6153	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219726	Isoform 2AC of Catenin delta-1	S 176	62% (8.22)	0.6153	4	1	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00219728	Isoform 2A of Catenin delta-1	S 176	62% (8.22)	0.6153	4	1	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00289876	syntaxin 7	S 131	62% (8.22)	0.6153	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00295004	Isoform 1 of Alsin	S 1462	62% (8.22)	0.6153	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00301109	Isoform 1 of Inorganic pyrophosphatase 2, mitochondrial precursor	S 317	62% (8.22)	0.6153	3	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00402231	Isoform 1 of DnaJ homolog subfamily C member 5	S 15	62% (8.22)	0.6153	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00470502	Isoform 2 of Inorganic pyrophosphatase 2, mitochondrial precursor	S 332	62% (8.22)	0.6153	3	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00470503	Isoform 3 of Inorganic pyrophosphatase 2, mitochondrial precursor	S 288	62% (8.22)	0.6153	3	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00552913	Isoform 2 of Syntaxin-7	S 130	62% (8.22)	0.6153	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746507	32 kDa protein	S 257	62% (8.22)	0.6153	3	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00011635	Isoform 2 of Bcl-2-like 13 protein	S 370	61% (8.21)	0.6149	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00292134	Epidermal growth factor receptor substrate 15	S 108	61% (8.21)	0.6149	6	5	1	2	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00385325	Epidermal growth factor receptor pathway substrate 15	S 108	61% (8.21)	0.6149	6	5	1	2	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 1317	61% (11.10)	0.6146	6	4	1	1	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 1322	61% (11.10)	0.6146	6	4	1	1	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00215965	heterogeneous nuclear ribonucleoprotein A1 isoform b	S 360	61% (14.08)	0.6146	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00302990	WD-repeat protein 55	S 382	61% (3.60)	0.6145	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00178072	Cytospin-A	S 887	61% (9.12)	0.6142	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
IPI00027378	UBA/UBX 33.3 kDa protein	S 200	61% (9.42)	0.6138	6	7	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	2	0	0	0	4	0	0	0	0	0
IPI00396563	2B28 protein	S 200	61% (9.42)	0.6138	6	7	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	2	0	0	0	4	0	0	0	0	0
IPI00246058	PDCD6IP protein	S 735	61% (9.87)	0.6138	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00455806	paternally expressed 10 isoform RF1	S 315	61% (12.69)	0.6135	2	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00168350	CDNA FLJ90669 fis, clone PLACE1005519, moderately similar to Homo sapiens STE20-like kinase 3 (mst-	S 306	61% (6.04)	0.6133	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00182383	Serine/threonine protein kinase MST4a	S 244	61% (6.04)	0.6133	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00292827	Serine/threonine-protein kinase MST4	S 306	61% (6.04)	0.6133	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00002549	Isoform 1 of Anaphase-promoting complex subunit 2	S 470	61% (7.04)	0.6130	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00375832	Isoform 2 of Anaphase-promoting complex subunit 2	S 467	61% (7.04)	0.6130	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00739363	PREDICTED: similar to Anaphase promoting complex subunit 2	S 244	61% (7.04)	0.6130	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	S 336	61% (7.94)	0.6127	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022145	Nuclear ubiquitous casein and cyclin-dependent kinases substrate	S 50	61% (4.14)	0.6124	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00012149	U3 small nucleolar ribonucleoprotein protein MPP10	S 167	61% (5.23)	0.6120	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00289649	Tyrosine-protein phosphatase non-receptor type 3	S 372	61% (5.55)	0.6117	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00480052	protein tyrosine phosphatase, non-receptor type 3	S 372	61% (5.55)	0.6117	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00647108	Tyrosine phosphatase	S 372	61% (5.55)	0.6117	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00030274	hypothetical protein LOC84081 isoform 1	S 289	61% (5.09)	0.6113	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	S 340	61% (13.10)	0.6110	5	4	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00025330	Isoform 2 of Cyclin-L1	S 136	61% (8.14)	0.6106	2	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
IPI00654682	Isoform 1 of Cyclin-L1	S 342	61% (8.14)	0.6106	2	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
IPI00654740	Isoform 3 of Cyclin-L1	S 115	61% (8.14)	0.6106	2	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
IPI00005715	Isoform 1 of Ubiquitin conjugation factor E4 B	S 31	61% (8.14)	0.6105	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00100197	Isoform 1 of NSFL1 cofactor p47	S 272	61% (8.14)	0.6105	3	3	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00216592	Isoform C1 of Heterogeneous nuclear ribonucleoproteins C1/C2	S 228	61% (8.14)	0.6105	2	3	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00397571	Isoform 3 of NSFL1 cofactor p47	S 274	61% (8.14)	0.6105	3	3	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 1320	61% (8.14)	0.6097	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 1325	61% (8.14)	0.6097	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00738223	PREDICTED: similar to rho guanine nucleotide exchange factor 5 isoform 1 isoform 1	S 662	61% (11.10)	0.6090	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00220754	Isoform 1 of Gamma-adducin	S 651	61% (8.96)	0.6073	2	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00107113	Isoform 1 of U3 small nucleolar RNA-associated protein 14 homolog A	S 569	61% (5.47)	0.6069	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00167053	Isoform 1b of Oxysterol-binding protein-related protein 3	S 272	61% (5.47)	0.6069	3	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00169296	Isoform 2b of Oxysterol-binding protein-related protein 3	S 272	61% (5.47)	0.6069	3	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00294250	Ephrin type-A receptor 1 precursor	S 910	61% (5.47)	0.6069	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00295022	NK-tumor recognition protein	S 891	61% (5.60)	0.6069	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 1481	61% (6.59)	0.6051	2	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 1486	61% (6.59)	0.6051	2	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00298696	Treacle protein	S 505	60% (3.44)	0.6031	4	10	0	0	1	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	4	2	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0
IPI00747047	Treacle major isoform	S 582	60% (3.44)	0.6031	4	10	0	0	1	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	4	2	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0
IPI00291930	Isoform 1 of Epsin-4	S 299	60% (10.32)	0.6026	6	9	0	1	1	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	1	2	1	0	0	0
IPI00397519	Isoform 2 of Epsin-4	S 281	60% (10.32)	0.6026	6	9	0	1	1	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	1	2	1	0	0	0
IPI00023466	Protein AF-17	S 382	60% (7.97)	0.6011	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00759835	112 kDa protein	S 382	60% (7.97)	0.6011	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00019447	hypothetical protein LOC55215	S 407	60% (11.10)	0.5992	2	4	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00477345	CDNA FLJ14658 fis, clone NT2RP2002549	S 45	60% (11.10)	0.5992	2	4	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
IPI00163851	Isoform 1 of Eukaryotic translation initiation factor 2-alpha kinase 4	S 551	60% (11.11)	0.5982	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456685	Isoform 2 of Eukaryotic translation initiation factor 2-alpha kinase 4	S 551	60% (11.11)	0.5982	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00026219	Cleavage and polyadenylation specificity factor, 160 kDa subunit	S 756	60% (8.26)	0.5979	4	4	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00179757	Kinesin-like protein KIF1C	S 990	60% (7.91)	0.5976	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00002804	Serine/threonine-protein kinase N2	S 583	60% (5.31)	0.5968	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00289491	Protein CASC3	S 126	60% (5.31)	0.5968	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00296388	Isoform 1 of Bromodomain adjacent to zinc finger domain 2A	S 138	60% (5.31)	0.5968	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00385001	Hypothetical protein DKFZp686L1653 (Fragment)	S 1599	60% (5.31)	0.5968	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00477040	nucleoporin 188kDa	S 1709	60% (5.31)	0.5968	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00514221	112 kDa protein	S 583	60% (5.31)	0.5968	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00745274	bromodomain adjacent to zinc finger domain, 2A	S 138	60% (5.31)	0.5968	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00745366	PKN2 protein	S 122	60% (5.31)	0.5968	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00759742	Isoform 2 of Bromodomain adjacent to zinc finger domain 2A	S 138	60% (5.31)	0.5968	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00394829	hypothetical protein LOC286077	S 1068	60% (5.31)	0.5968	2	2	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00555610	313 kDa protein	S 2471	60% (5.29)	0.5957	4	4	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
IPI00005648	Scaffold attachment factor B2	S 246	60% (7.88)	0.5957	4	3	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00646058	103 kDa protein	S 247	60% (7.88)	0.5957	4	3	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00302592	Filamin A, alpha	S 966	59% (11.10)	0.5949	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00333541	Filamin-A	S 965	59% (11.10)	0.5949	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00100930	Hypothetical protein C12orf43	S 180	59% (6.72)	0.5942	3	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00328987	Bystin	S 167	59% (5.24)	0.5926	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00427522	Isoform 1 of Peroxisome proliferator-activated receptor-binding protein	S 1192	59% (13.21)	0.5920	2	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00014414	Bromodomain-containing protein 2	S 301	59% (9.70)	0.5916	2	4	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0
IPI00440502	BRD2 protein	S 301	59% (9.70)	0.5916	2	4	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0
IPI00645146	88 kDa protein	S 301	59% (9.70)	0.5916	2	4	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0
IPI00748005	92 kDa protein	S 301	59% (9.70)	0.5916	2	4	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0
IPI00297251	MGRN1 protein	S 106	59% (4.49)	0.5915	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00643212	KIAA0544 protein	S 106	59% (4.49)	0.5915	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00237884	Isoform 1 of A-kinase anchor protein 12	S 1726	59% (8.20)	0.5910	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00291607	Inositol 1,4,5-trisphosphate receptor type 3	S 937	59% (6.67)	0.5909	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	S 1058	59% (4.85)	0.5901	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00442210	Isoform 1 of Abl interactor 2	S 368	59% (9.42)	0.5897	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005024	Isoform 1 of Myb-binding protein 1A	S 1166	59% (7.38)	0.5896	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00607584	Isoform 2 of Myb-binding protein 1A	S 1166	59% (7.38)	0.5896	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00017450	Transcription initiation factor IIF alpha subunit	S 308	59% (0.00)	0.5890	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00419847	Isoform Alpha of Vinexin	S 606	59% (9.42)	0.5889	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00472540	Isoform Beta of Vinexin	S 264	59% (9.42)	0.5889	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00181359	SFRS2-interacting protein	S 90	59% (9.42)	0.5889	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746412	129 kDa protein	S 90	59% (9.42)	0.5889	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00289837	PREDICTED: hypothetical protein LOC114800	S 231	59% (3.24)	0.5885	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																				SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00028065	Cytoplasmic protein NCK1	S 166	59% (9.39)	0.5872	3	3	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00013272	Isoform 1 of Golgin subfamily A member 4	S 41	59% (6.59)	0.5862	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00103090	Hypothetical protein LEO1	S 608	59% (6.59)	0.5862	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220521	Isoform 3 of Golgin subfamily A member 4	S 41	59% (6.59)	0.5862	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00220522	Isoform 4 of Golgin subfamily A member 4	S 41	59% (6.59)	0.5862	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00329694	Isoform 2 of Golgin subfamily A member 4	S 41	59% (6.59)	0.5862	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00411559	Isoform 1 of Structural maintenance of chromosomes 4-like 1 protein	S 41	59% (6.59)	0.5862	6	8	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0
IPI00465087	Ubiquitin carboxyl-terminal hydrolase BAP1	S 395	59% (6.63)	0.5862	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1550	59% (6.59)	0.5862	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00005614	Isoform Long of Spectrin beta chain, brain 1	S 2341	58% (9.34)	0.5841	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00007675	Cytoplasmic dynein 1 light intermediate chain 1	S 516	58% (9.34)	0.5841	3	2	0	0	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00386897	CDNA FLJ12401 fis, clone MAMMA1002796	S 51	58% (6.55)	0.5838	1	8	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	1	2	0	1	0	0
IPI00409607	Novel protein	S 464	58% (6.55)	0.5838	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00440241	PREDICTED: hypothetical protein LOC79649 isoform 3	S 184	58% (6.55)	0.5838	1	8	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	1	2	0	1	0	0
IPI00642366	calmodulin regulated spectrin-associated protein 1-like 1	S 453	58% (6.55)	0.5838	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00642481	Novel protein	S 185	58% (6.55)	0.5838	1	8	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	1	2	0	1	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	S 381	58% (6.47)	0.5835	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00216230	Lamina-associated polypeptide 2 isoform alpha	S 176	58% (5.08)	0.5826	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00013721	Serine/threonine-protein kinase PRP4 homolog	S 144	58% (2.61)	0.5814	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00016250	Fragile X mental retardation syndrome-related protein 2	S 603	58% (15.08)	0.5811	4	1	0	2	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00152881	Shroom-related protein	S 969	58% (9.55)	0.5806	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00401147	Isoform 1 of Sad1/unc-84 protein-like 1	S 237	58% (3.13)	0.5801	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00382733	Transcription repressor	S 92	58% (8.51)	0.5789	2	7	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0
IPI00022020	Type II inositol-3,4-bisphosphate 4-phosphatase	S 495	58% (6.47)	0.5788	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00386211	family with sequence similarity 44, member A	S 659	58% (6.47)	0.5788	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00399254	OTU domain containing 4 protein isoform 1	S 479	58% (9.12)	0.5788	3	1	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00000192	Isoform F of SON protein	S 1783	58% (6.47)	0.5788	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022450	TBC1 domain family member 5	S 539	58% (6.47)	0.5788	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00217930	Isoform J of SON protein	S 1783	58% (6.47)	0.5788	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218617	SON protein	S 1745	58% (6.47)	0.5788	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218619	Isoform C of SON protein	S 1783	58% (6.47)	0.5788	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218620	Isoform D of SON protein	S 1783	58% (6.47)	0.5788	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218622	Isoform G of SON protein	S 1743	58% (6.47)	0.5788	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218624	Isoform I of SON protein	S 1823	58% (6.47)	0.5788	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00382737	SON DNA-binding protein isoform G	S 1743	58% (6.47)	0.5788	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00401958	SON DNA-binding protein isoform C	S 1783	58% (6.47)	0.5788	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00026781	Fatty acid synthase	S 2236	58% (9.24)	0.5784	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00645907	fatty acid synthase	S 2236	58% (9.24)	0.5784	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00465287	ras responsive element binding protein 1 isoform 2	S 36	58% (9.52)	0.5773	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00465288	ras responsive element binding protein 1 isoform 1	S 36	58% (9.52)	0.5773	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00419322	hepatoma-derived growth factor-related protein 2 isoform 1	S 142	58% (5.55)	0.5769	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00645387	hepatoma-derived growth factor-related protein 2 isoform 2	S 142	58% (5.55)	0.5769	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00021048	Isoform 1 of Myoferlin	S 727	58% (5.52)	0.5765	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00328798	DLNB11 protein	S 987	57% (9.63)	0.5744	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00017227	Ubiquitin domain containing 1 variant	S 166	57% (3.04)	0.5736	4	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00456970	Isoform 1 of Cell division cycle 2-like protein kinase 5	S 439	57% (5.47)	0.5731	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00074148	dystonin isoform 1	S 1884	57% (3.03)	0.5729	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00168698	PDZ domain-containing protein 8	S 519	57% (4.08)	0.5729	3	2	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00002564	DNA-repair protein XRCC1	S 447	57% (27.44)	0.5720	3	5	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0
IPI00170979	Isoform 2 of Ena/VASP-like protein	S 329	57% (6.59)	0.5718	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218245	Isoform 1 of Ena/VASP-like protein	S 331	57% (6.59)	0.5718	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00021786	RAF proto-oncogene serine/threonine-protein kinase	S 259	57% (9.11)	0.5708	3	3	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0
IPI00103090	Hypothetical protein LEO1	S 66	57% (6.33)	0.5705	2	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00291802	Isoform 3 of LIM domain only protein 7	S 1157	57% (3.44)	0.5704	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00004344	Isoform 1 of AF4/FMR2 family member 4	S 671	57% (7.44)	0.5702	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00383219	Isoform 2 of AF4/FMR2 family member 4	S 671	57% (7.44)	0.5702	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00020928	Transcription factor A, mitochondrial precursor	S 195	57% (2.99)	0.5700	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00023283	Isoform 2 of Titin	S 7897	57% (2.99)	0.5698	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00216046	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin a1 isoform a	S 116	57% (8.64)	0.5696	3	7	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00552298	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin a1 isoform b	S 116	57% (8.64)	0.5696	3	7	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00643568	120 kDa protein	S 116	57% (8.64)	0.5696	3	7	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00646130	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 1	S 116	57% (8.64)	0.5696	3	7	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00647510	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 1	S 95	57% (8.64)	0.5696	3	7	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00024062	Band 4.1-like protein 1	S 437	57% (5.59)	0.5675	2	4	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
IPI00644651	EPB41L1 protein	S 437	57% (5.59)	0.5675	2	4	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
IPI00289907	forty-two-three domain containing 1 isoform 1	S 15	57% (4.85)	0.5674	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00552700	Hypothetical protein DKFZp761B1514	S 15	57% (4.85)	0.5674	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00032491	Inner nuclear membrane protein Man1	S 185	57% (9.30)	0.5673	2	2	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00180764	Histone acetyltransferase MYST2	S 164	57% (4.84)	0.5669	1	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
IPI00465287	ras responsive element binding protein 1 isoform 2	S 1122	57% (7.38)	0.5666	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00465288	ras responsive element binding protein 1 isoform 1	S 1122	57% (7.38)	0.5666	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00292753	GTPase activating protein and VPS9 domains 1	S 974	57% (13.12)	0.5658	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00742770	KIAA1521 protein	S 786	57% (13.12)	0.5658	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 1460	57% (7.36)	0.5657	5	4	2	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 1465	57% (7.36)	0.5657	5	4	2	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00014414	Bromodomain-containing protein 2	S 633	57% (8.26)	0.5655	4	4	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00256859	Microtubule-actin crosslinking factor 1	S 319	57% (8.26)	0.5655	6	6	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00440502	BRD2 protein	S 668	57% (8.26)	0.5655	4	4	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00645146	88 kDa protein	S 633	57% (8.26)	0.5655	4	4	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00748005	92 kDa protein	S 668	57% (8.26)	0.5655	4	4	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00328293	Serine#/arginine repetitive matrix 1	S 786	56% (6.59)	0.5640	3	2	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00008868	Microtubule-associated protein 1B	S 1965	56% (8.22)	0.5631	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00177498	Hypothetical protein DKFZp451D112	S 908	56% (8.22)	0.5631	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00374770	microtubule-associated protein 1B isoform 2	S 1839	56% (8.22)	0.5631	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00411635	KIAA0802 protein	S 257	56% (8.22)	0.5631	4	3	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00553043	Hypothetical protein DKFZp781I1455	S 523	56% (8.22)	0.5631	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00554434	Hypothetical protein DKFZp686G18243	S 511	56% (8.22)	0.5631	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00737659	PREDICTED: hypothetical protein LOC440193 isoform 1	S 1592	56% (8.22)	0.5631	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00740019	PREDICTED: similar to DVL-binding protein DAPLE isoform 9	S 1592	56% (8.22)	0.5631	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00304692	Heterogeneous nuclear ribonucleoprotein G	S 249	56% (11.79)	0.5623	2	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00018914	Tyrosine-protein phosphatase non-receptor type 14	S 809	56% (7.28)	0.5610	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00302917	AT rich interactive domain 4B isoform 2	S 692	56% (2.87)	0.5607	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00328828	AT rich interactive domain 4B isoform 1	S 778	56% (2.87)	0.5607	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00031627	DNA-directed RNA polymerase II largest subunit	S 1894	56% (8.14)	0.5602	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00004233	Isoform Long of Antigen KI-67	S 144	56% (8.14)	0.5582	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00301293	antigen identified by monoclonal antibody Ki-67	S 144	56% (8.14)	0.5582	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00657687	Isoform 1 of Actin-binding protein anillin	S 295	56% (8.14)	0.5582	11	10	1	1	0	1	1	0	1	1	1	0	1	0	1	0	1	1	0	0	1	0	1	1	0	0	1	0	1	1	0	0	1	1	1	1	0	0
IPI00743594	124 kDa protein	S 296	56% (8.14)	0.5582	11	10	1	1	0	1	1	0	1	1	1	0	1	0	1	0	1	1	0	0	1	0	1	1	0	0	1	0	1	1	0	0	1	1	1	1	0	0
IPI00007208	Probable ATP-dependent RNA helicase DDX41	S 21	56% (6.13)	0.5582	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00156793	DNA-repair protein complementing XP-C cells	S 883	56% (6.16)	0.5581	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 142	56% (6.12)	0.5576	2	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00187011	Zinc finger CCCH-type domain-containing protein C19orf7	S 915	56% (8.87)	0.5570	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00008529	60S acidic ribosomal protein P2	S 16	56% (7.21)	0.5568	5	8	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	3	1		
IPI00064212	KIAA1802 protein (Fragment)	S 635	56% (7.21)	0.5568	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00216546	Isoform 2 of Probable palmitoyltransferase ZDHHC5	S 641	56% (7.21)	0.5568	6	1	1	0	0	1	1	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00328272	Isoform 1 of Probable palmitoyltransferase ZDHHC5	S 694	56% (7.21)	0.5568	6	1	1	0	0	1	1	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00414497	Chromosome 13 open reading frame 8	S 626	56% (7.21)	0.5568	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00644521	36 kDa protein	S 181	56% (6.07)	0.5564	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00033022	Isoform 1 of Dynamin-2	S 764	56% (11.01)	0.5562	3	1	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00181352	dynamin 2 isoform 4	S 760	56% (11.01)	0.5562	3	1	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218889	Isoform 2 of Dynamin-2	S 760	56% (11.01)	0.5562	3	1	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00477431	98 kDa protein	S 764	56% (11.01)	0.5562	3	1	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514550	dynamin 2 isoform 2	S 764	56% (11.01)	0.5562	3	1	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00454969	PHD finger protein 14	S 280	56% (8.09)	0.5556	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00472782	PHD finger protein 14 isoform 1	S 280	56% (8.09)	0.5556	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00299524	Condensin complex subunit 1	S 1367	55% (8.08)	0.5548	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00297191	CRSP complex subunit 2	S 1142	55% (6.05)	0.5538	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00303797	B-Raf proto-oncogene serine/threonine-protein kinase	S 605	55% (6.05)	0.5538	3	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00003373	Occludin	S 358	55% (4.64)	0.5537	1	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0
IPI00479078	Tight junction protein occludin TM4 minus	S 304	55% (4.64)	0.5537	1	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0
IPI00718918	PREDICTED: similar to Occludin	S 177	55% (4.64)	0.5537	1	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0
IPI00736401	PREDICTED: similar to Occludin	S 177	55% (4.64)	0.5537	1	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0
IPI00743585	59 kDa protein	S 358	55% (4.64)	0.5537	1	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0
IPI00745876	53 kDa protein	S 304	55% (4.64)	0.5537	1	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0
IPI00166612	cardiomyopathy associated 5	S 3683	55% (4.00)	0.5536	1	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00216633	Isoform Short of Dematin	S 22	55% (6.04)	0.5528	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00292290	Isoform Long of Dematin	S 22	55% (6.04)	0.5528	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010252	Isoform Alpha of Transcription intermediary factor 1-gamma	S 644	55% (9.42)	0.5516	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00221114	Isoform Beta of Transcription intermediary factor 1-gamma	S 644	55% (9.42)	0.5516	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00651651	tripartite motif-containing 33 protein isoform beta	S 644	55% (9.42)	0.5516	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010463	GTP binding protein 1	S 580	55% (9.87)	0.5513	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00165946	Isoform 2 of Membrane-associated guanylate kinase, WW and PDZ domain-containing protein 1	S 612	55% (10.89)	0.5491	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00470759	Isoform 1 of Membrane-associated guanylate kinase, WW and PDZ domain-containing protein 1	S 612	55% (10.89)	0.5491	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00470764	Isoform 6 of Membrane-associated guanylate kinase, WW and PDZ domain-containing protein 1	S 612	55% (10.89)	0.5491	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00470765	Isoform 7 of Membrane-associated guanylate kinase, WW and PDZ domain-containing protein 1	S 612	55% (10.89)	0.5491	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00302592	Filamin A, alpha	S 2518	55% (7.97)	0.5485	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00333541	Filamin-A	S 2525	55% (7.97)	0.5485	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00383597	Isoform A of Anion exchange protein 2	S 144	55% (9.87)	0.5485	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00477139	Isoform B1 of Anion exchange protein 2	S 130	55% (9.87)	0.5485	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00003419	Small acidic protein	S 15	55% (4.54)	0.5475	6	6	0	0	0	1	2	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1	2	0	0	0	1	1	0
IPI00478979	PREDICTED: similar to SLIT-ROBO Rho GTPase-activating protein 2	S 514	55% (4.54)	0.5475	4	3	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00479125	SLIT-ROBO Rho GTPase-activating protein 2	S 930	55% (4.54)	0.5475	4	3	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00479145	Keratin, type I cytoskeletal 19	S 55	55% (9.34)	0.5469	3	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00013933	Isoform DPI of Desmoplakin	S 2209	55% (11.50)	0.5463	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00738216	PREDICTED: hypothetical protein LOC23379	S 2085	55% (7.03)	0.5460	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00005625	136 kDa protein	S 1038	55% (4.44)	0.5453	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00170935	Leucine-rich repeat-containing protein 47	S 520	54% (7.88)	0.5430	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00304493	serum response factor binding protein 1	S 205	54% (7.88)	0.5430	6	5	0	0	0	2	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	2	0	0	0
IPI00026307	Pre-mRNA-splicing factor PRP17	S 43	54% (6.96)	0.5419	1	4	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0
IPI00221325	Ran-binding protein 2	S 18	54% (4.44)	0.5414	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00396370	Isoform 1 of Eukaryotic translation initiation factor 3 subunit 9	S 117	54% (2.61)	0.5411	2	3	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00719752	Isoform 2 of Eukaryotic translation initiation factor 3 subunit 9	S 117	54% (2.61)	0.5411	2	3	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00747447	99 kDa protein	S 117	54% (2.61)	0.5411	2	3	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00008137	Zinc finger protein 295	S 434	54% (5.84)	0.5408	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00013905	5'-AMP-activated protein kinase subunit beta-2	S 183	54% (5.84)	0.5408	3	3	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0
IPI00174962	Molecule interacting with Rab13	S 619	54% (5.84)	0.5408	4	3	0	0	1	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
IPI00017443	Absent in melanoma 1-like	S 441	54% (13.01)	0.5407	1	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	1	0	0	0
IPI00240675	programmed cell death 4 isoform 2	S 83	54% (4.44)	0.5407	5	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00290110	programmed cell death 4 isoform 1	S 94	54% (4.44)	0.5407	5	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00647084	Programmed cell death 4	S 80	54% (4.44)	0.5407	5	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00002186	Brefeldin A-inhibited guanine nucleotide-exchange protein 2	S 277	54% (5.85)	0.5407	4	3	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
IPI00023287	Isoform 4 of E3 ubiquitin-protein ligase NEDD4-like protein	S 182	54% (4.44)	0.5407	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00163321	Isoform 2 of E3 ubiquitin-protein ligase NEDD4-like protein	S 303	54% (4.44)	0.5407	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00166830	Isoform 5 of E3 ubiquitin-protein ligase NEDD4-like protein	S 303	54% (4.44)	0.5407	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00304945	Isoform 8 of E3 ubiquitin-protein ligase NEDD4-like protein	S 343	54% (4.44)	0.5407	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00640924	Isoform 1 of E3 ubiquitin-protein ligase NEDD4-like protein	S 303	54% (4.44)	0.5407	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00643856	Isoform 7 of E3 ubiquitin-protein ligase NEDD4-like protein	S 295	54% (4.44)	0.5407	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00644256	Isoform 6 of E3 ubiquitin-protein ligase NEDD4-like protein	S 295	54% (4.44)	0.5407	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00759546	Isoform 5 of Afadin	S 1081	54% (4.44)	0.5407	5	3	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00295457	myosin phosphatase-Rho interacting protein isoform 1	S 360	54% (4.78)	0.5403	4	4	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0
IPI00023283	Isoform 2 of Titin	S 766	54% (6.92)	0.5395	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00054042	Isoform 1 of General transcription factor II-I	S 677	54% (6.92)	0.5395	4	5	0	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00217449	Isoform 3 of General transcription factor II-I	S 657	54% (6.92)	0.5395	4	5	0	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00217450	Isoform 4 of General transcription factor II-I	S 656	54% (6.92)	0.5395	4	5	0	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00293242	Isoform 2 of General transcription factor II-I	S 636	54% (6.92)	0.5395	4	5	0	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00221325	Ran-binding protein 2	S 2276	54% (9.58)	0.5377	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00012429	Isoform 2 of Protein C9orf5	S 332	54% (11.10)	0.5376	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00607576	Isoform 1 of Protein C9orf5	S 332	54% (11.10)	0.5376	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00607692	Isoform 4 of Protein C9orf5	S 332	54% (11.10)	0.5376	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00007411	A-kinase anchor protein 11	S 1242	54% (4.39)	0.5375	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00161614	A-kinase anchor protein 11 isoform 2	S 1242	54% (4.39)	0.5375	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00170770	PHD finger protein 3	S 1724	54% (7.38)	0.5370	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00297191	CRSP complex subunit 2	S 1144	54% (3.13)	0.5369	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00304866	Tumor necrosis factor, alpha-induced protein 2	S 632	54% (12.25)	0.5363	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219301	Myristoylated alanine-rich C-kinase substrate	S 28	54% (8.96)	0.5359	8	11	0	1	2	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	2	2	2	0	0	0	1	1	0	0	0	0	1	2	0	0	0
IPI00028493	Isoform 1 of Tuberin	S 1385	54% (5.75)	0.5351	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00218883	Isoform 4 of Tuberin	S 1362	54% (5.75)	0.5351	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00164434	Isoform 1 of Receptor expression-enhancing protein 3	S 150	54% (5.75)	0.5350	2	5	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	1	0	0	0
IPI00164434	Isoform 1 of Receptor expression-enhancing protein 3	S 152	54% (5.75)	0.5350	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00376229	Isoform 1 of Phosphofurin acidic cluster sorting protein 1	S 493	53% (6.13)	0.5345	7	6	1	1	0	0	0	0	1	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	0	1	1	0	0
IPI00456262	Isoform 2 of Phosphofurin acidic cluster sorting protein 1	S 493	53% (6.13)	0.5345	7	6	1	1	0	0	0	0	1	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	0	1	1	0	0
IPI00375358	Isoform 1 of Replication factor C subunit 1	S 1104	53% (9.12)	0.5338	2	3	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
IPI00375359	Isoform 2 of Replication factor C subunit 1	S 1103	53% (9.12)	0.5338	2	3	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
IPI00187011	Zinc finger CCCH-type domain-containing protein C19orf7	S 1110	53% (8.41)	0.5336	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00028493	Isoform 1 of Tuberin	S 1420	53% (7.71)	0.5331	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00218883	Isoform 4 of Tuberin	S 1397	53% (7.71)	0.5331	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00304379	Ubiquitin carboxyl-terminal hydrolase 1	S 313	53% (4.78)	0.5326	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00299512	Isoform 2 of Neurofibromin	S 2521	53% (4.64)	0.5317	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00304235	Isoform 1 of Neurofibromin	S 2500	53% (4.64)	0.5317	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00069817	Isoform 1 of Bromodomain adjacent to zinc finger domain protein 1B	S 349	53% (5.60)	0.5300	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00216695	Isoform 2 of Bromodomain adjacent to zinc finger domain protein 1B	S 349	53% (5.60)	0.5300	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00377154	bromodomain adjacent to zinc finger domain, 1B	S 349	53% (5.60)	0.5300	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00019471	Insulin receptor substrate 1	S 348	53% (9.85)	0.5292	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00335634	Isoform Beta of Paxillin	S 130	52% (5.55)	0.5243	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00030466	PREDICTED: hypothetical protein LOC26115 isoform 1	S 1489	52% (6.67)	0.5243	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	S 1837	52% (5.55)	0.5226	3	3	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00298994	Talin-1	S 425	52% (5.55)	0.5226	3	6	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0
IPI00555610	313 kDa protein	S 2861	52% (6.63)	0.5219	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00016861	Isoform 1 of General transcription factor 3C polypeptide 2	S 904	52% (8.26)	0.5214	4	4	0	1	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0
IPI00456887	Scaffold attachment factor A2	S 226	52% (8.25)	0.5207	28	37	1	9	1	0	0	0	2	5	1	0	0	0	0	7	0	1	1	0	2	9	1	1	0	0	1	4	1	0	0	0	2	15	0	0	0	1
IPI00741728	PREDICTED: similar to heterogeneous nuclear ribonucleoprotein U	S 383	52% (8.25)	0.5207	28	37	1	9	1	0	0	0	2	5	1	0	0	0	0	7	0	1	1	0	2	9	1	1	0	0	1	4	1	0	0	0	2	15	0	0	0	1
IPI00748920	splicing coactivator subunit SRm300	S 988	52% (7.89)	0.5200	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220901	TBC1 domain family, member 4	S 345	52% (4.12)	0.5196	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00002549	Isoform 1 of Anaphase-promoting complex subunit 2	S 499	52% (6.59)	0.5195	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00020898	Ribosomal protein S6 kinase alpha-3	S 392	52% (6.59)	0.5195	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00375832	Isoform 2 of Anaphase-promoting complex subunit 2	S 496	52% (6.59)	0.5195	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00739363	PREDICTED: similar to Anaphase promoting complex subunit 2	S 273	52% (6.59)	0.5195	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00744288	Isoform 5 of C-jun-amino-terminal kinase-interacting protein 4	S 245	52% (6.59)	0.5195	3	3	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00289334	Isoform 1 of Filamin-B	S 2135	52% (6.59)	0.5195	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0
IPI00382696	Isoform 2 of Filamin-B	S 2111	52% (6.59)	0.5195	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0
IPI00554788	Keratin, type I cytoskeletal 18	S 44	52% (6.59)	0.5195	4	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
IPI00643352	nucleoporin 214kDa	S 1045	52% (8.21)	0.5186	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00179473	Isoform 1 of Sequestosome-1	S 368	52% (8.21)	0.5186	3	3	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0
IPI00651643	Isoform 2 of Sequestosome-1	S 366	52% (8.21)	0.5186	3	3	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0
IPI00019551	Pleckstrin homology-like domain family A member 2 (Fragment)	S 141	52% (4.12)	0.5184	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
IPI00334126	Ral GEF with PH domain and SH3 binding motif 2, isoform 2	S 311	52% (6.67)	0.5182	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00644990	Ral GEF with PH domain and SH3 binding motif 2	S 276	52% (6.67)	0.5182	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00024234	Phosphatidate cytidylyltransferase 1	S 37	52% (5.47)	0.5178	3	3	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00026317	Zinc finger and BTB domain-containing protein 7A	S 525	52% (5.47)	0.5178	6	2	0	0	1	1	0	0	0	0	1	1	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00307733	huntingtin interacting protein B	S 1449	52% (5.47)	0.5178	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413362	signal-induced proliferation-associated 1 like 1	S 208	52% (5.47)	0.5178	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00435422	Isoform 2 of Signal-induced proliferation-associated 1-like protein 1	S 208	52% (5.47)	0.5178	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00215877	Isoform Short of Adenomatous polyposis coli protein	S 886	52% (3.53)	0.5177	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00013214	DNA replication licensing factor MCM3	S 681	52% (2.54)	0.5176	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00161085	Isoform 1 of Nucleolar protein 8	S 302	52% (10.83)	0.5164	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00480054	Isoform 3 of Nucleolar protein 8	S 170	52% (10.83)	0.5164	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00643700	Isoform 4 of Nucleolar protein 8	S 296	52% (10.83)	0.5164	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00759630	Isoform 2 of Nucleolar protein 8	S 228	52% (10.83)	0.5164	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00297254	Signal-induced proliferation-associated 1-like protein 3	S 1160	52% (7.43)	0.5163	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00339381	Isoform 1 of SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A me	S 398	52% (7.43)	0.5163	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00759790	Isoform 2 of SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A me	S 276	52% (7.43)	0.5163	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00001159	GCN1-like protein 1	S 923	51% (2.27)	0.5142	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00019471	Insulin receptor substrate 1	S 1142	51% (2.25)	0.5128	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00295774	Solute carrier family 23 member 2	S 600	51% (2.25)	0.5128	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00396370	Isoform 1 of Eukaryotic translation initiation factor 3 subunit 9	S 119	51% (2.25)	0.5128	8	8	1	2	1	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	0	2	1	0	0	0	0	1	2	0	0	0	0
IPI00552917	OTTHUMP00000030176	S 486	51% (2.25)	0.5128	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00719752	Isoform 2 of Eukaryotic translation initiation factor 3 subunit 9	S 119	51% (2.25)	0.5128	8	8	1	2	1	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	0	2	1	0	0	0	0	1	2	0	0	0	0
IPI00747447	99 kDa protein	S 119	51% (2.25)	0.5128	8	8	1	2	1	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	0	2	1	0	0	0	0	1	2	0	0	0	0
IPI00401282	PREDICTED: hypothetical protein LOC23307	S 1279	51% (0.00)	0.5128	8	8	2	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	1	2	0	0	0	0	2	0	0	0	0	0
IPI00739371	PREDICTED: similar to Golgi autoantigen, golgin subfamily A member 6	S 1284	51% (0.00)	0.5128	8	8	2	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	1	2	0	0	0	0	2	0	0	0	0	0
IPI00009471	WD-repeat protein 3	S 923	51% (0.00)	0.5124	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00384028	poly(A) polymerase alpha	S 545	51% (6.47)	0.5120	2	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00020546	Ash1	S 1748	51% (6.47)	0.5120	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00069817	Isoform 1 of Bromodomain adjacent to zinc finger domain protein 1B	S 329	51% (6.47)	0.5120	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00102173	Ubiquitin-conjugating enzyme E2 E2	S 19	51% (6.47)	0.5120	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0
IPI00216695	Isoform 2 of Bromodomain adjacent to zinc finger domain protein 1B	S 329	51% (6.47)	0.5120	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00377154	bromodomain adjacent to zinc finger domain, 1B	S 329	51% (6.47)	0.5120	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00642422	Ash1	S 1457	51% (6.47)	0.5120	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00373869	Homeodomain-like containing protein	S 110	51% (6.46)	0.5116	5	7	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	2	0	0
IPI00433194	EHBP1 protein	S 300	51% (6.45)	0.5112	5	6	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00328089	Kappa B and V(D)J recombination signal sequences binding protein	S 993	51% (7.34)	0.5109	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00013107	Isoform 1 of Splicing factor, arginine/serine-rich 16	S 331	51% (7.34)	0.5109	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00432061	Isoform 3 of Splicing factor, arginine/serine-rich 16	S 316	51% (7.34)	0.5109	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00186711	plectin 1 isoform 6	S 4618	51% (11.10)	0.5107	3	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00398002	plectin 1 isoform 1	S 4508	51% (11.10)	0.5107	3	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00398779	plectin 1 isoform 11	S 4481	51% (11.10)	0.5107	3	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00003419	Small acidic protein	S 25	51% (3.98)	0.5100	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0
IPI00013721	Serine/threonine-protein kinase PRP4 homolog	S 142	51% (3.98)	0.5100	3	3	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00100980	EH-domain-containing protein 2	S 468	51% (4.12)	0.5100	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00301311	Isoform 2 of Protein SET	S 15	51% (8.60)	0.5099	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00401282	PREDICTED: hypothetical protein LOC23307	S 1078	51% (5.59)	0.5081	4	6	0	0	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	0	0	0	0
IPI00739371	PREDICTED: similar to Golgi autoantigen, golgin subfamily A member 6	S 1083	51% (5.59)	0.5081	4	6	0	0	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	0	0	0	0
IPI00021263	14-3-3 protein zeta/delta	S 207	51% (7.28)	0.5078	3	5	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00396634	OTTHUMP00000028561	S 465	51% (7.28)	0.5078	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010463	GTP binding protein 1	S 25	51% (5.31)	0.5076	2	7	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	2	2	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0
IPI00026317	Zinc finger and BTB domain-containing protein 7A	S 526	51% (5.31)	0.5076	10	6	0	0	3	0	0	0	0	0	3	0	0	0	0	0	4	0	0	0	0	1	0	1	0	0	0	1	1	0	0	0	0	0	2	0	0	0	0	0	0	0
IPI00171176	Isoform 1 of Pantothenate kinase 2, mitochondrial precursor	S 169	51% (5.31)	0.5076	4	2	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
IPI00556350	pantothenate kinase 2 isoform 1 preproprotein	S 169	51% (5.31)	0.5076	4	2	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
IPI00021786	RAF proto-oncogene serine/threonine-protein kinase	S 497	51% (5.30)	0.5070	4	3	0	0	1	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00008708	Ribosomal L1 domain-containing protein 1	S 400	51% (0.00)	0.5067	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00745557	ankyrin repeat domain protein 17 isoform a	S 1826	51% (7.26)	0.5064	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00290684	Bifunctional polynucleotide phosphatase/kinase	S 114	51% (3.36)	0.5063	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00644522	PNKP protein	S 75	51% (3.36)	0.5063	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00152692	Probable D-tyrosyl-tRNA(Tyr) deacylase	S 194	51% (5.21)	0.5062	2	5	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1401	51% (12.19)	0.5060	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 2123	51% (12.30)	0.5052	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00445401	Isoform 2 of HECT, UBA and WWE domain-containing protein 1	S 2532	50% (11.24)	0.5047	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456919	Isoform 1 of HECT, UBA and WWE domain-containing protein 1	S 2532	50% (11.24)	0.5047	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00643153	Isoform 3 of HECT, UBA and WWE domain-containing protein 1	S 2523	50% (11.24)	0.5047	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	S 3517	50% (9.42)	0.5045	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00290410	Acidic 82 kDa protein mRNA	S 141	50% (7.22)	0.5037	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00045856	CDNA FLJ14717 fis, clone NT2RP3001239, moderately similar to MICROTUBULE-ASSOCIATED PROTEIN 1	S 631	50% (3.31)	0.5036	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00296485	BPY2 interacting protein 1	S 631	50% (3.31)	0.5036	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00414779	DNA excision repair protein ERCC-6	S 1348	50% (7.21)	0.5035	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00016859	Isoform 1 of Transcription factor IIIB 90 kDa subunit	S 553	50% (5.24)	0.5033	2	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00157643	Isoform 3 of Transcription factor IIIB 90 kDa subunit	S 349	50% (5.24)	0.5033	2	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00607889	Isoform 5 of Transcription factor IIIB 90 kDa subunit	S 526	50% (5.24)	0.5033	2	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00083708	HBxAg transactivated protein 2	S 638	50% (2.95)	0.5021	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00739117	HBxAg transactivated protein 2	S 636	50% (2.95)	0.5021	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 346	50% (0.00)	0.5013	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00431127	Isoform 1 of Cyclin-K	S 328	50% (0.00)	0.5001	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00003783	Dual specificity mitogen-activated protein kinase kinase 2	S 293	50% (0.00)	0.5000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
IPI00010653	Isoform 1 of RNA exonuclease 4	S 14	50% (0.00)	0.5000	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00014197	Hypothetical protein	S 107	50% (0.00)	0.5000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 1068	50% (0.00)	0.5000	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00218648	Isoform III of AT-rich interactive domain-containing protein 4A	S 864	50% (0.00)	0.5000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00289344	Isoform 1 of Nuclear receptor corepressor 1	S 1195	50% (7.16)	0.5000	2	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00295502	PREDICTED: widely-interspaced zinc finger motifs isoform 1	S 901	50% (0.00)	0.5000	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00296421	PREDICTED: EH domain binding protein 1-like 1 isoform 1	S 285	50% (0.00)	0.5000	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00303343	Serine arginine-rich pre-mRNA splicing factor SR-A1	S 975	50% (0.00)	0.5000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00328929	Conserved nuclear protein NHN1	S 852	50% (0.00)	0.5000	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00454910	Serine/threonine-protein kinase MRCK gamma	S 1495	50% (0.00)	0.5000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00479404	vacuolar protein sorting 13D isoform 1	S 1704	50% (0.00)	0.5000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514073	vacuolar protein sorting 13D isoform 2	S 1704	50% (0.00)	0.5000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00643014	retinoblastoma-associated factor 600	S 620	50% (0.00)	0.5000	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
IPI00657953	triple functional domain	S 1724	50% (0.00)	0.5000	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 1073	50% (0.00)	0.5000	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00744900	160 kDa protein	S 272	50% (0.00)	0.5000	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746934	574 kDa protein	S 620	50% (0.00)	0.5000	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
IPI00395444	Calmodulin regulated spectrin-associated protein 1	S 594	50% (4.05)	0.4998	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00470461	Hypothetical protein DKFZp686L2367	S 2169	50% (4.67)	0.4970	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00292134	Epidermal growth factor receptor substrate 15	S 563	50% (8.87)	0.4957	8	7	0	2	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	0	0	0	0
IPI00385325	Epidermal growth factor receptor pathway substrate 15	S 429	50% (8.87)	0.4957	8	7	0	2	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	0	0	0	0
IPI00008708	Ribosomal L1 domain-containing protein 1	S 421	50% (8.18)	0.4956	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216230	Lamina-associated polypeptide 2 isoform alpha	S 179	50% (8.26)	0.4953	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00237884	Isoform 1 of A-kinase anchor protein 12	S 363	50% (7.80)	0.4952	2	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00021076	Isoform Long of Plakophilin-4	S 231	49% (7.07)	0.4950	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00334400	Isoform Short of Plakophilin-4	S 231	49% (7.07)	0.4950	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00747119	plakophilin 4 isoform b	S 231	49% (7.07)	0.4950	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00022661	Isoform Delta of Poliovirus receptor-related protein 2 precursor	S 405	49% (6.63)	0.4939	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00010951	Epiplakin	S 2693	49% (5.07)	0.4926	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00016610	Poly(rC)-binding protein 1	S 264	49% (5.74)	0.4926	2	8	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	1	1	1	0	0	0	1	0	0	0
IPI00465275	Isoform 1 of Ran-binding protein 9	S 477	49% (9.19)	0.4926	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00513912	KB07 protein	S 317	49% (9.19)	0.4926	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00032374	Isoform 2 of Protein KIAA0179	S 713	49% (14.02)	0.4908	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00290952	Isoform 1 of Protein KIAA0179	S 731	49% (14.02)	0.4908	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	S 2938	49% (8.74)	0.4901	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216689	Poly(rC)-binding protein 2	S 272	49% (6.98)	0.4898	6	8	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	0	1	1	1	0	0	0	1	1	0
IPI00169307	Rho GTPase activating protein 21	S 318	49% (6.96)	0.4886	2	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00472901	chromodomain helicase DNA binding protein 7	S 557	49% (3.65)	0.4881	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00290032	Transient receptor potential cation channel subfamily M member 7	S 101	49% (7.88)	0.4874	2	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00337736	Isoform 2 of Kinectin	S 161	49% (6.17)	0.4871	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00307591	zinc finger protein 609	S 842	49% (6.05)	0.4864	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00657953	triple functional domain	S 1818	49% (6.04)	0.4862	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00479669	hypothetical protein LOC23074 isoform a	S 989	49% (4.97)	0.4861	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00001754	Junctional adhesion molecule A precursor	S 142	49% (9.18)	0.4859	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00069985	28 kDa protein	S 103	49% (9.18)	0.4859	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00294993	F11 receptor isoform b	S 102	49% (9.18)	0.4859	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219147	Isoform 2 of DNA-binding protein A	S 38	49% (6.91)	0.4855	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00550506	Isoform 1 of Rho guanine nucleotide exchange factor 16	S 227	48% (4.44)	0.4847	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00170934	LKB1 interacting protein	S 616	48% (3.60)	0.4845	3	1	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00376199	Interferon regulatory factor 2 binding protein 2	S 240	48% (3.60)	0.4845	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00470596	Isoform 1 of Zinc finger protein 638	S 510	48% (8.89)	0.4845	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00607784	Isoform 3 of Zinc finger protein 638	S 510	48% (8.89)	0.4845	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00646970	Interferon regulatory factor 2 binding protein 2	S 240	48% (3.60)	0.4845	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00300384	Receptor tyrosine-protein kinase erbB-2 precursor	S 1050	48% (1.69)	0.4836	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00654851	erbB-2 isoform b	S 1020	48% (1.69)	0.4836	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00304589	182 kDa tankyrase 1-binding protein	S 920	48% (1.88)	0.4832	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00017297	Matrin-3	S 596	48% (4.92)	0.4830	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00152671	hypothetical protein LOC157769	S 355	48% (12.50)	0.4812	3	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00019540	Isoform 4 of SAPS domain family member 3	S 571	48% (8.21)	0.4810	3	3	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00030624	Isoform 6 of SAPS domain family member 3	S 622	48% (8.21)	0.4810	3	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00442167	CDNA FLJ16400 fis, clone TUTER2000057, moderately similar to Mus musculus AE-1 binding protein AEE	S 139	48% (6.05)	0.4809	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00439948	Isoform 1 of RelA-associated inhibitor	S 110	48% (4.85)	0.4799	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00174962	Molecule interacting with Rab13	S 620	48% (4.85)	0.4784	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00301844	Zinc finger and homeobox protein 3	S 946	48% (4.85)	0.4784	4	5	0	1	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0
IPI00645281	OTTHUMP00000031007	S 655	48% (4.85)	0.4784	4	5	0	1	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00000192	Isoform F of SON protein	S 1782	48% (7.50)	0.4784	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00179713	insulin-like growth factor 2 mRNA binding protein 2 isoform a	S 161	48% (4.85)	0.4784	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00180983	insulin-like growth factor 2 mRNA binding protein 2 isoform b	S 161	48% (4.85)	0.4784	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00217930	Isoform J of SON protein	S 1782	48% (7.50)	0.4784	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218617	SON protein	S 1744	48% (7.50)	0.4784	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218619	Isoform C of SON protein	S 1782	48% (7.50)	0.4784	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218620	Isoform D of SON protein	S 1782	48% (7.50)	0.4784	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218622	Isoform G of SON protein	S 1742	48% (7.50)	0.4784	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218624	Isoform I of SON protein	S 1822	48% (7.50)	0.4784	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00382737	SON DNA-binding protein isoform G	S 1742	48% (7.50)	0.4784	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00401958	SON DNA-binding protein isoform C	S 1782	48% (7.50)	0.4784	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00743914	66 kDa protein	S 160	48% (4.85)	0.4784	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00329488	Isoform IB of Tyrosine-protein kinase ABL2	S 203	48% (4.85)	0.4784	2	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00383728	Isoform IA of Tyrosine-protein kinase ABL2	S 167	48% (4.85)	0.4784	2	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00719587	Isoform IC of Tyrosine-protein kinase ABL2	S 188	48% (4.85)	0.4784	2	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00745593	V-abl Abelson murine leukemia viral oncogene homolog 2	S 188	48% (4.85)	0.4784	2	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00376317	autoantigen RCD8	S 875	48% (6.76)	0.4766	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0
IPI00477242	Autoantigen	S 875	48% (6.76)	0.4766	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0
IPI00641449	CDNA FLJ46741 fis, clone TRACH3021373, highly similar to Homo sapiens autoantigen	S 605	48% (6.76)	0.4766	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0
IPI00291032	spectrin domain with coiled-coils 1 NSP5b3b	S 133	48% (8.14)	0.4765	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00651629	spectrin domain with coiled-coils 1 NSP5a3b	S 52	48% (8.14)	0.4765	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00384569	Hypothetical protein KIAA1685	S 264	47% (5.84)	0.4741	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00419431	Hypothetical protein DKFZp686C1968	S 524	47% (5.84)	0.4741	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1654	47% (11.95)	0.4740	2	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00026952	Plakophilin-3	S 431	47% (3.44)	0.4737	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00030408	M-phase phosphoprotein 8	S 188	47% (3.44)	0.4737	1	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00013891	Isoform Long of Transformer-2 protein homolog	S 266	47% (11.95)	0.4732	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00301503	Isoform 1 of Arginine/serine-rich splicing factor 10	S 270	47% (11.95)	0.4732	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00555647	Splicing factor, arginine/serine-rich 10	S 270	47% (11.95)	0.4732	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00064767	nadrin isoform 1	S 625	47% (5.83)	0.4730	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00385511	Isoform 1 of Trinucleotide repeat-containing 6B protein	S 597	47% (8.22)	0.4728	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00419693	activating transcription factor 7 interacting protein	S 474	47% (6.67)	0.4711	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00301618	Isoform 1 of Serologically defined colon cancer antigen 1	S 763	47% (5.77)	0.4698	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00083708	HBxAg transactivated protein 2	S 189	47% (7.43)	0.4685	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00739117	HBxAg transactivated protein 2	S 187	47% (7.43)	0.4685	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216952	Isoform C of Lamin-A/C	S 406	47% (8.26)	0.4680	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00026307	Pre-mRNA-splicing factor PRP17	S 49	47% (4.67)	0.4674	2	4	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00396370	Isoform 1 of Eukaryotic translation initiation factor 3 subunit 9	S 152	47% (3.53)	0.4672	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00719752	Isoform 2 of Eukaryotic translation initiation factor 3 subunit 9	S 152	47% (3.53)	0.4672	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00747447	99 kDa protein	S 152	47% (3.53)	0.4672	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00024971	Oxysterol-binding protein 1	S 379	47% (6.59)	0.4663	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
IPI00289334	Isoform 1 of Filamin-B	S 518	47% (4.64)	0.4651	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00294728	Protein DmX-like 1	S 917	47% (4.64)	0.4651	2	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00382696	Isoform 2 of Filamin-B	S 518	47% (4.64)	0.4651	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00445401	Isoform 2 of HECT, UBA and WWE domain-containing protein 1	S 2595	47% (4.64)	0.4651	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00456919	Isoform 1 of HECT, UBA and WWE domain-containing protein 1	S 2595	47% (4.64)	0.4651	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00643153	Isoform 3 of HECT, UBA and WWE domain-containing protein 1	S 2586	47% (4.64)	0.4651	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00003515	Thyroid receptor-interacting protein 11	S 1842	46% (7.93)	0.4648	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00292753	GTPase activating protein and VPS9 domains 1	S 1071	46% (7.28)	0.4638	2	4	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00742770	KIAA1521 protein	S 856	46% (7.28)	0.4638	2	4	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00394829	hypothetical protein LOC286077	S 516	46% (3.29)	0.4637	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00002186	Brefeldin A-inhibited guanine nucleotide-exchange protein 2	S 276	46% (5.67)	0.4635	9	10	1	0	0	1	0	0	2	1	1	1	0	0	1	1	0	0	0	0	1	1	1	0	0	0	1	1	1	1	0	0	1	1	1	0	0	0
IPI00028122	Isoform 1 of PC4 and SFRS1-interacting protein	S 105	46% (6.53)	0.4627	2	3	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0
IPI00175136	RNA binding motif protein 15B	S 265	46% (0.00)	0.4622	2	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00006079	Isoform 1 of Bcl-2-associated transcription factor 1	S 259	46% (4.15)	0.4620	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413671	Isoform 2 of Bcl-2-associated transcription factor 1	S 257	46% (4.15)	0.4620	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413672	Isoform 3 of Bcl-2-associated transcription factor 1	S 257	46% (4.15)	0.4620	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00643923	PREDICTED: similar to HLA-B associated transcript-2 isoform a isoform 10	S 226	46% (7.21)	0.4595	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0
IPI00741537	PREDICTED: hypothetical protein LOC84726 isoform 1	S 226	46% (7.21)	0.4595	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0
IPI00168878	Torsin-1A-interacting protein 2	S 118	46% (3.23)	0.4595	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
IPI00025721	COP9 signalosome complex subunit 3	S 422	46% (6.47)	0.4589	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00152701	Hypothetical protein FLJ23660	S 557	46% (1.54)	0.4582	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00185919	Isoform 1 of La-related protein 1	S 546	46% (1.54)	0.4562	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00002255	Lipopolysaccharide-responsive and beige-like anchor protein	S 1118	46% (5.55)	0.4562	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00163849	Epidermal growth factor receptor substrate 15-like 1	S 575	46% (5.55)	0.4562	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00646339	Hypothetical protein DKFZp586A0524	S 575	46% (5.55)	0.4562	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00030466	PREDICTED: hypothetical protein LOC26115 isoform 1	S 310	46% (7.89)	0.4557	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00401282	PREDICTED: hypothetical protein LOC23307	S 429	46% (5.54)	0.4555	2	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00739371	PREDICTED: similar to Golgi autoantigen, golgin subfamily A member 6	S 434	46% (5.54)	0.4555	2	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00003406	Drebrin	S 336	45% (6.59)	0.4547	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00295624	drebrin 1 isoform b	S 339	45% (6.59)	0.4547	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00299417	Protein C22orf19	S 307	45% (9.95)	0.4537	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00166612	cardiomyopathy associated 5	S 3692	45% (3.26)	0.4531	1	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00291316	Rho₩/rac guanine nucleotide exchange factor (GEF) 2	S 691	45% (3.13)	0.4524	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00412782	Guanine nucleotide exchange factor GEF-H1	S 690	45% (3.13)	0.4524	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00472160	Rho/Rac guanine nucleotide exchange factoR 2	S 785	45% (3.13)	0.4524	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00643259	Rho₩/rac guanine nucleotide exchange factor (GEF) 2	S 692	45% (3.13)	0.4524	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00472675	Nuclear pore complex protein Nup205	S 1169	45% (3.12)	0.4516	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00013107	Isoform 1 of Splicing factor, arginine/serine-rich 16	S 101	45% (8.96)	0.4516	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
IPI00432061	Isoform 3 of Splicing factor, arginine/serine-rich 16	S 86	45% (8.96)	0.4516	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
IPI00034006	Tyrosine-protein phosphatase non-receptor type 23	S 1126	45% (10.34)	0.4516	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00184997	Full-length cDNA clone CS0DH002YN05 of T cells (Fragment)	S 747	45% (3.29)	0.4515	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00647106	Isoform 2 of Discs large homolog 7	S 639	45% (3.29)	0.4515	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00647892	Isoform 1 of Discs large homolog 7	S 720	45% (3.29)	0.4515	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00015833	Coiled-coil-helix-coiled-coil-helix domain-containing protein 3	S 50	45% (5.47)	0.4515	5	8	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	2	1	0	0	0	0	0	1	1	0	0	0	1	2	0
IPI00301618	Isoform 1 of Serologically defined colon cancer antigen 1	S 806	45% (5.47)	0.4515	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00295022	NK-tumor recognition protein	S 613	45% (3.61)	0.4499	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00180625	KIAA0284 protein	S 351	45% (4.39)	0.4496	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00003842	Isoform 1 of Microtubule-associated protein 2	S 654	45% (8.22)	0.4488	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010728	203 kDa protein	S 654	45% (8.22)	0.4488	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00472094	Isoform 3 of Microtubule-associated protein 2	S 650	45% (8.22)	0.4488	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00157144	GYS1 protein	S 646	45% (9.55)	0.4481	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00303868	Glycogen [starch] synthase, muscle	S 710	45% (9.55)	0.4481	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00008144	Isoform 1 of Neurabin-1	S 845	45% (11.21)	0.4471	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00305020	SH2 domain-containing protein 3A	S 123	45% (11.10)	0.4470	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00398779	plectin 1 isoform 11	S 20	45% (2.99)	0.4459	5	6	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00299512	Isoform 2 of Neurofibromin	S 2599	45% (3.03)	0.4458	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00304235	Isoform 1 of Neurofibromin	S 2578	45% (3.03)	0.4458	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00383597	Isoform A of Anion exchange protein 2	S 449	44% (5.37)	0.4450	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00477139	Isoform B1 of Anion exchange protein 2	S 435	44% (5.37)	0.4450	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00029019	Ubiquitin-associated protein 2-like	S 479	44% (5.55)	0.4446	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00412535	115 kDa protein	S 479	44% (5.55)	0.4446	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00514856	Ubiquitin associated protein 2-like	S 477	44% (5.55)	0.4446	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00298696	Treacle protein	S 1034	44% (8.14)	0.4440	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00747047	Treacle major isoform	S 1111	44% (8.14)	0.4440	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00033907	Anaphase-promoting complex subunit 1	S 563	44% (2.99)	0.4432	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00012462	CDA02	S 527	44% (6.09)	0.4432	10	14	1	1	1	0	0	0	1	1	1	1	0	0	1	1	1	0	0	0	1	1	2	0	0	0	1	1	1	0	0	1	1	1	1	1	1	1
IPI00024062	Band 4.1-like protein 1	S 782	44% (10.17)	0.4428	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00644651	EPB41L1 protein	S 781	44% (10.17)	0.4428	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00177642	Coiled-coil domain-containing protein 9	S 386	44% (5.31)	0.4416	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
IPI00219798	Isoform 1 of Roundabout homolog 1 precursor	S 1442	44% (5.31)	0.4416	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00418121	Isoform 2 of Roundabout homolog 1 precursor	S 1446	44% (5.31)	0.4416	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00418122	Isoform 3 of Roundabout homolog 1 precursor	S 1406	44% (5.31)	0.4416	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00419433	Isoform 1 of Rab11 family-interacting protein 1	S 342	44% (5.31)	0.4416	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00740934	PREDICTED: similar to roundabout 1 isoform b	S 1406	44% (5.31)	0.4416	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005264	Isoform 2 of Plakophilin-2	S 82	44% (6.63)	0.4411	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219688	Isoform 1 of Plakophilin-2	S 82	44% (6.63)	0.4411	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219301	Myristoylated alanine-rich C-kinase substrate	S 82	44% (4.84)	0.4409	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00012885	Isoform 1 of Focal adhesion kinase 1	S 850	44% (2.95)	0.4396	2	2	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00413961	PTK2 protein tyrosine kinase 2 isoform b	S 872	44% (2.95)	0.4396	2	2	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00749256	PTK2 protein tyrosine kinase 2 isoform b variant (Fragment)	S 802	44% (2.95)	0.4396	2	2	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00644521	36 kDa protein	S 146	44% (4.15)	0.4395	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00384909	CDNA FLJ12811 fis, clone NT2RP2002475	S 293	44% (4.97)	0.4387	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00335634	Isoform Beta of Paxillin	S 126	44% (4.34)	0.4361	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00555610	313 kDa protein	S 2468	43% (2.87)	0.4348	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00003373	Occludin	S 310	43% (9.42)	0.4339	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00479078	Tight junction protein occludin TM4 minus	S 256	43% (9.42)	0.4339	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00718918	PREDICTED: similar to Occludin	S 129	43% (9.42)	0.4339	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00736401	PREDICTED: similar to Occludin	S 129	43% (9.42)	0.4339	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00743585	59 kDa protein	S 310	43% (9.42)	0.4339	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00745876	53 kDa protein	S 256	43% (9.42)	0.4339	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	S 902	43% (2.71)	0.4338	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00292753	GTPase activating protein and VPS9 domains 1	S 758	43% (4.88)	0.4333	3	6	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0
IPI00742770	KIAA1521 protein	S 597	43% (4.88)	0.4333	3	6	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0
IPI00152007	Tumor endothelial marker 4	S 507	43% (5.24)	0.4333	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00045856	CDNA FLJ14717 fis, clone NT2RP3001239, moderately similar to MICROTUBULE-ASSOCIATED PROTEIN 1	S 582	43% (5.16)	0.4325	1	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
IPI00296485	BPY2 interacting protein 1	S 582	43% (5.16)	0.4325	1	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
IPI00472794	FCH domain only 2	S 540	43% (7.94)	0.4322	3	2	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00173946	TPR domain, ankyrin-repeat and coiled-coil-containing	S 1666	43% (9.42)	0.4308	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00002478	Isoform B of Endothelin-converting enzyme 1	S 36	43% (4.08)	0.4303	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00102575	ATP(GTP)-binding protein	S 812	43% (4.08)	0.4303	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00216760	Isoform C of Endothelin-converting enzyme 1	S 20	43% (4.08)	0.4303	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00216762	Isoform D of Endothelin-converting enzyme 1	S 33	43% (4.08)	0.4303	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00643352	nucleoporin 214kDa	S 1963	43% (12.19)	0.4303	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00169434	Grb10 interacting GYF protein 2	S 376	43% (8.38)	0.4297	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010400	1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase beta 3	S 926	43% (6.70)	0.4296	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00181283	Similar to phospholipase C, beta 3 (Fragment)	S 883	43% (6.70)	0.4296	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00012788	Isoform 2 of RNA polymerase I-associated factor PAF49	S 128	43% (3.53)	0.4290	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00645816	Isoform 1 of RNA polymerase I-associated factor PAF49	S 126	43% (3.53)	0.4290	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00401282	PREDICTED: hypothetical protein LOC23307	S 1102	43% (5.26)	0.4280	1	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0
IPI00739371	PREDICTED: similar to Golgi autoantigen, golgin subfamily A member 6	S 1107	43% (5.26)	0.4280	1	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0
IPI00470596	Isoform 1 of Zinc finger protein 638	S 128	43% (7.76)	0.4274	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00607784	Isoform 3 of Zinc finger protein 638	S 128	43% (7.76)	0.4274	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219726	Isoform 2AC of Catenin delta-1	S 178	43% (5.07)	0.4271	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219728	Isoform 2A of Catenin delta-1	S 178	43% (5.07)	0.4271	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00376229	Isoform 1 of Phosphofurin acidic cluster sorting protein 1	S 381	43% (7.28)	0.4268	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456262	Isoform 2 of Phosphofurin acidic cluster sorting protein 1	S 381	43% (7.28)	0.4268	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413942	Isoform 1 of GRIP1-associated protein 1	S 650	43% (4.12)	0.4259	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00607628	Isoform 4 of GRIP1-associated protein 1	S 619	43% (4.12)	0.4259	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00644786	GRIP1 associated protein 1	S 606	43% (4.12)	0.4259	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00299547	Neutrophil gelatinase-associated lipocalin precursor	S 88	43% (4.12)	0.4257	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00643623	Lipocalin 2	S 88	43% (4.12)	0.4257	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00743064	23 kDa protein	S 88	43% (4.12)	0.4257	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00394829	hypothetical protein LOC286077	S 844	43% (6.63)	0.4254	+ 1	+ 2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00216219	Isoform Long of Tight junction protein ZO-1	S 326	42% (6.32)	0.4249	0	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00021766	Isoform 1 of Reticulon-4	S 184	42% (5.16)	0.4246	+ 7	+ 11	0	1	1	2	0	0	0	0	0	1	0	0	0	2	0	0	0	0	1	1	0	1	0	0	1	1	2	2	0	0	0	0	1	1	0	0
IPI00478442	reticulon 4 isoform D	S 184	42% (5.16)	0.4246	+ 7	+ 11	0	1	1	2	0	0	0	0	0	1	0	0	0	2	0	0	0	0	1	1	0	1	0	0	1	1	2	2	0	0	0	0	1	1	0	0
IPI00449923	Isoform 1 of Retinoic acid-induced protein 1	S 1122	42% (6.47)	0.4241	+ 2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00449924	Isoform 2 of Retinoic acid-induced protein 1	S 1075	42% (6.47)	0.4241	+ 2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00647688	198 kDa protein	S 1073	42% (6.47)	0.4241	+ 2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00152007	Tumor endothelial marker 4	S 1658	42% (6.59)	0.4231	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00221325	Ran-binding protein 2	S 2251	42% (6.59)	0.4231	+ 3	+ 1	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00021786	RAF proto-oncogene serine/threonine-protein kinase	S 301	42% (8.26)	0.4228	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00000634	Coiled-coil domain-containing protein 6	S 351	42% (7.21)	0.4226	0	+ 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00289344	Isoform 1 of Nuclear receptor corepressor 1	S 1962	42% (7.21)	0.4226	+ 1	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00555610	313 kDa protein	S 325	42% (10.42)	0.4222	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00016387	pre-mRNA cleavage complex II protein Pcf11	S 489	42% (4.84)	0.4203	+ 2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00181556	CDNA FLJ90551 fis, clone OVARC1000779, weakly similar to ZINC FINGER PROTEIN 157	S 94	42% (4.70)	0.4196	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00401752	KIAA1285 protein	S 38	42% (4.70)	0.4196	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00171273	Isoform A of Myotubularin-related protein 3	S 652	42% (5.83)	0.4196	+ 1	+ 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00171274	Isoform C of Myotubularin-related protein 3	S 652	42% (5.83)	0.4196	+ 1	+ 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00185018	Isoform B of Myotubularin-related protein 3	S 652	42% (5.83)	0.4196	+ 1	+ 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00009326	65 kDa Yes-associated protein	S 127	42% (9.83)	0.4195	+ 4	+ 4	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	1	0	0
IPI00216919	YAP1 protein	S 127	42% (9.83)	0.4195	+ 4	+ 4	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	1	0	0
IPI00418458	Isoform 1 of Pinin	S 413	42% (2.64)	0.4189	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00170979	Isoform 2 of Ena/VASP-like protein	S 331	42% (3.90)	0.4188	+ 2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218245	Isoform 1 of Ena/VASP-like protein	S 333	42% (3.90)	0.4188	+ 2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00449923	Isoform 1 of Retinoic acid-induced protein 1	S 1119	42% (7.38)	0.4183	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00449924	Isoform 2 of Retinoic acid-induced protein 1	S 1072	42% (7.38)	0.4183	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00647688	198 kDa protein	S 1070	42% (7.38)	0.4183	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00397526	Myosin-10	S 1962	42% (9.55)	0.4182	+ 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00297593	Ubiquitin-specific proteinase 34	S 3410	42% (7.96)	0.4180	+ 2	+ 4	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00219913	Ubiquitin carboxyl-terminal hydrolase 14	S 392	42% (2.61)	0.4174	+ 2	+ 1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00298289	Isoform 2 of Reticulon-4	S 182	42% (2.61)	0.4174	0	+ 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00413144	Hypothetical protein DKFZp686B18208	S 836	42% (2.61)	0.4174	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00438286	Isoform 1 of LAP2 protein	S 714	42% (2.61)	0.4174	0	+ 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00438287	Isoform 2 of LAP2 protein	S 714	42% (2.61)	0.4174	0	+ 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00438288	Isoform 3 of LAP2 protein	S 714	42% (2.61)	0.4174	0	+ 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00438290	Isoform 5 of LAP2 protein	S 714	42% (2.61)	0.4174	0	+ 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00438292	Isoform 7 of LAP2 protein	S 714	42% (2.61)	0.4174	0	+ 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00640357	ubiquitin specific protease 14 isoform b	S 358	42% (2.61)	0.4174	+ 2	+ 1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748753	153 kDa protein	S 714	42% (2.61)	0.4174	0	+ 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 1086	42% (4.34)	0.4170	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 1091	42% (4.34)	0.4170	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413362	signal-induced proliferation-associated 1 like 1	S 1565	42% (5.47)	0.4169	+ 4	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00435422	Isoform 2 of Signal-induced proliferation-associated 1-like protein 1	S 1544	42% (5.47)	0.4169	+ 4	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218486	Isoform 1 of Protein phosphatase Slingshot homolog 3	S 85	42% (2.61)	0.4169	+ 1	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00186194	KARP-1-binding protein	S 668	42% (1.06)	0.4168	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00002188	Brefeldin A-inhibited guanine nucleotide-exchange protein 1	S 397	42% (6.47)	0.4159	+ 2	+ 2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00004838	Isoform Crk-II of Proto-oncogene C-crk	S 41	42% (6.47)	0.4159	+ 5	+ 4	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	1	0	0
IPI00009771	Lamin-B2	S 420	42% (6.47)	0.4159	0	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
IPI00305469	v-crk sarcoma virus CT10 oncogene homolog isoform b	S 41	42% (6.47)	0.4159	+ 5	+ 4	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	1	0	0
IPI00399054	v-crk sarcoma virus CT10 oncogene homolog isoform a	S 41	42% (6.47)	0.4159	+ 5	+ 4	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	1	0	0
IPI00329236	Protein kinase C delta type	S 647	41% (5.55)	0.4140	+ 2	+ 1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00384562	protein kinase C, delta	S 647	41% (5.55)	0.4140	+ 2	+ 1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00030466	PREDICTED: hypothetical protein LOC26115 isoform 1	S 1367	41% (4.85)	0.4136	+ 3	+ 3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00442210	Isoform 1 of Abl interactor 2	S 187	41% (5.74)	0.4128	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00184821	Bifunctional coenzyme A synthase	S 178	41% (7.63)	0.4127	+ 2	+ 3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0
IPI00335634	Isoform Beta of Paxillin	S 243	41% (9.16)	0.4122	+ 1	+ 3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00470901	215 kDa protein	S 1775	41% (4.78)	0.4120	+ 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746684	dedicator of cytokinesis 5	S 1775	41% (4.78)	0.4120	+ 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00217851	PHACTR4 protein	S 116	41% (8.08)	0.4105	+ 2	+ 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0
IPI00432436	PHACTR4 protein	S 100	41% (8.08)	0.4105	+ 2	+ 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0
IPI00657967	79 kDa protein	S 126	41% (8.08)	0.4105	+ 2	+ 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0
IPI00168459	Isoform 2 of Pleckstrin homology-like domain family B member 2	S 493	41% (3.30)	0.4091	+ 5	+ 6	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00410259	Isoform 1 of Pleckstrin homology-like domain family B member 2	S 493	41% (3.30)	0.4091	+ 5	+ 6	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00657763	Isoform 3 of Pleckstrin homology-like domain family B member 2	S 520	41% (3.30)	0.4091	+ 5	+ 6	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00414315	Isoform 1 of Epidermal growth factor receptor kinase substrate 8-like protein 2	S 452	41% (4.41)	0.4085	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00425560	Isoform 1 of LAP4 protein	S 1561	41% (5.47)	0.4069	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00425566	Isoform 4 of LAP4 protein	S 1585	41% (5.47)	0.4069	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00413942	Isoform 1 of GRIP1-associated protein 1	S 654	41% (2.44)	0.4059	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00607628	Isoform 4 of GRIP1-associated protein 1	S 623	41% (2.44)	0.4059	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00644786	GRIP1 associated protein 1	S 610	41% (2.44)	0.4059	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00477959	TAF3 RNA polymerase II, TATA box binding protein	S 229	41% (5.64)	0.4059	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00006715	Double-strand-break repair protein rad21 homolog	S 175	41% (8.22)	0.4054	3	4	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00300562	Ras-related protein Rab-3B	S 190	41% (8.23)	0.4053	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00295022	NK-tumor recognition protein	S 611	41% (4.12)	0.4052	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00301421	Isoform 1 of Nuclear-interacting partner of ALK	S 370	40% (5.55)	0.4047	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00339382	Isoform 2 of Nuclear-interacting partner of ALK	S 349	40% (5.55)	0.4047	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00215877	Isoform Short of Adenomatous polyposis coli protein	S 884	40% (2.25)	0.4034	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00298870	Transmembrane protein 1	S 711	40% (3.65)	0.4032	1	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00216540	Isoform 4 of Protein kinase C-binding protein 1	S 114	40% (5.07)	0.4014	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
IPI00418316	RACK7 isoform e	S 510	40% (5.07)	0.4014	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
IPI00640598	protein kinase C binding protein 1 isoform a	S 510	40% (5.07)	0.4014	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
IPI00718938	Isoform 6 of Protein kinase C-binding protein 1	S 345	40% (5.07)	0.4014	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
IPI00719682	Isoform 7 of Protein kinase C-binding protein 1	S 509	40% (5.07)	0.4014	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
IPI00740207	RACK7 isoform j	S 485	40% (5.07)	0.4014	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
IPI00741204	RACK7 isoform f	S 485	40% (5.07)	0.4014	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
IPI00748579	RACK7 isoform d	S 485	40% (5.07)	0.4014	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
IPI00010896	Chloride intracellular channel protein 1	S 155	40% (4.64)	0.4010	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00179109	Isoform 1 of NAD-dependent deacetylase sirtuin-2	S 368	40% (4.64)	0.4010	5	1	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00382551	Isoform 2 of NAD-dependent deacetylase sirtuin-2	S 331	40% (4.64)	0.4010	5	1	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00413734	Isoform 6 of Transcriptional regulator ATRX	S 821	40% (4.64)	0.4010	4	3	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00472047	Isoform 3 of NAD-dependent deacetylase sirtuin-2	S 348	40% (4.64)	0.4010	5	1	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00640953	43 kDa protein	S 366	40% (4.64)	0.4010	5	1	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00643990	40 kDa protein	S 339	40% (4.64)	0.4010	5	1	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00644591	hypothetical protein LOC64423 isoform 2	S 56	40% (4.64)	0.4010	5	6	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00646484	Chloride intracellular channel 1	S 156	40% (4.64)	0.4010	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00337736	Isoform 2 of Kinectin	S 243	40% (4.63)	0.4004	4	5	0	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00718792	LOC387680 protein (Fragment)	S 513	40% (6.12)	0.4002	4	3	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0
IPI00220594	Isoform 4 of Intersectin-1	S 313	40% (5.47)	0.4002	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00304740	Isoform 1 of Intersectin-1	S 313	40% (5.47)	0.4002	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00291800	Isoform 1 of Eukaryotic translation initiation factor 4E transporter	S 379	40% (2.93)	0.4002	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00414095	Eukaryotic translation initiation factor 4E nuclear import factor 1	S 216	40% (2.93)	0.4002	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00550518	Isoform 2 of Eukaryotic translation initiation factor 4E transporter	S 216	40% (2.93)	0.4002	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00645199	Eukaryotic translation initiation factor 4E nuclear import factor 1	S 379	40% (2.93)	0.4002	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00398992	Isoform 1 of Chromodomain-helicase-DNA-binding protein 8	S 270	40% (0.00)	0.4000	4	4	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
IPI00719073	Isoform 2 of Chromodomain-helicase-DNA-binding protein 8	S 414	40% (0.00)	0.4000	4	4	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
IPI00738937	PREDICTED: hypothetical protein LOC57479 isoform 1	S 577	40% (0.00)	0.4000	3	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00745321	PREDICTED: similar to CG17233-PA, isoform A isoform 5	S 568	40% (0.00)	0.4000	3	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00069084	Isoform 1 of Transformation/transcription domain-associated protein	S 2552	40% (3.60)	0.3999	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00394732	Isoform 2 of Transformation/transcription domain-associated protein	S 2534	40% (3.60)	0.3999	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00174962	Molecule interacting with Rab13	S 471	40% (6.59)	0.3996	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00513791	dedicator of cytokinesis 7	S 414	40% (5.17)	0.3987	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00552897	Isoform 1 of Mediator of DNA damage checkpoint protein 1	S 1563	40% (6.08)	0.3986	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00641106	227 kDa protein	S 1563	40% (6.08)	0.3986	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00003419	Small acidic protein	S 24	40% (3.44)	0.3982	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	1
IPI00455500	rapamycin-insensitive companion of mTOR	S 1282	40% (3.67)	0.3972	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00009101	Transcriptional activator SRCAP	S 419	40% (3.55)	0.3970	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00444046	CDNA FLJ46149 fis, clone TESTI4000621, moderately similar to Homo sapiens Snf2-related CBP activator	S 562	40% (3.55)	0.3970	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00550342	KIAA0309 protein	S 562	40% (3.55)	0.3970	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00304379	Ubiquitin carboxyl-terminal hydrolase 1	S 475	40% (5.92)	0.3969	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0
IPI00106495	Condensin complex subunit 3	S 439	40% (0.00)	0.3965	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00291939	Structural maintenance of chromosome 1-like 1 protein	S 360	40% (0.80)	0.3961	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00328798	DLNB11 protein	S 993	39% (7.38)	0.3943	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 2428	39% (2.25)	0.3943	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00169345	Protein NEDD1	S 574	39% (1.98)	0.3929	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00553164	40S ribosomal protein SA	S 42	39% (7.46)	0.3923	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010463	GTP binding protein 1	S 24	39% (3.44)	0.3900	5	2	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
IPI00033907	Anaphase-promoting complex subunit 1	S 50	39% (5.59)	0.3900	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00419933	Pleckstrin homology domain containing, family A member 2	S 485	39% (3.44)	0.3900	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00290142	CTP synthase	S 575	39% (4.44)	0.3892	2	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00083708	HBxAg transactivated protein 2	S 635	39% (1.50)	0.3873	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00739117	HBxAg transactivated protein 2	S 633	39% (1.50)	0.3873	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00455806	paternally expressed 10 isoform RF1	S 316	39% (7.61)	0.3873	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
IPI00102752	Isoform 1 of Putative RNA-binding protein 15	S 779	39% (0.80)	0.3864	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220716	Isoform 2 of Putative RNA-binding protein 15	S 779	39% (0.80)	0.3864	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220717	Isoform 3 of Putative RNA-binding protein 15	S 779	39% (0.80)	0.3864	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022145	Nuclear ubiquitous casein and cyclin-dependent kinases substrate	S 14	39% (7.38)	0.3854	5	2	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
IPI00413728	Isoform 1 of Spectrin alpha chain, brain	S 1029	38% (1.94)	0.3849	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00013891	Isoform Long of Transformer-2 protein homolog	S 20	38% (6.59)	0.3839	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00170770	PHD finger protein 3	S 1722	38% (6.85)	0.3836	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00026320	Ubiquitin-protein ligase EDD1	S 985	38% (3.31)	0.3818	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00741894	PREDICTED: similar to E3 ubiquitin protein ligase, HECT domain containing, 1	S 911	38% (3.31)	0.3818	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00646782	Hypothetical protein FAM73B	S 276	38% (4.19)	0.3812	2	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00013721	Serine/threonine-protein kinase PRP4 homolog	S 646	38% (2.07)	0.3807	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
IPI00433194	EHBP1 protein	S 397	38% (3.28)	0.3800	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00304692	Heterogeneous nuclear ribonucleoprotein G	S 277	38% (4.12)	0.3798	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00411886	Nucleolar complex protein 2 homolog	S 58	38% (9.16)	0.3790	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00414127	Ran-specific GTPase-activating protein	S 14	38% (4.08)	0.3788	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00384689	Hypothetical protein KIAA0251	S 714	38% (5.09)	0.3779	2	3	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	S 207	38% (8.26)	0.3777	2	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00376317	autoantigen RCD8	S 887	38% (5.59)	0.3777	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
IPI00477242	Autoantigen	S 887	38% (5.59)	0.3777	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
IPI00641449	CDNA FLJ46741 fis, clone TRACH3021373, highly similar to Homo sapiens autoantigen	S 617	38% (5.59)	0.3777	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
IPI00449923	Isoform 1 of Retinoic acid-induced protein 1	S 1110	38% (1.57)	0.3771	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00449924	Isoform 2 of Retinoic acid-induced protein 1	S 1063	38% (1.57)	0.3771	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00647688	198 kDa protein	S 1061	38% (1.57)	0.3771	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00157757	Isoform 1 of NEDD9-interacting protein with calponin homology and LIM domains	S 613	38% (5.76)	0.3755	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00441963	FLJ00407 protein (Fragment)	S 137	38% (5.76)	0.3755	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00479343	118 kDa protein	S 613	38% (5.76)	0.3755	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00647681	Isoform 2 of NEDD9-interacting protein with calponin homology and LIM domains	S 527	38% (5.76)	0.3755	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00023466	Protein AF-17	S 261	38% (2.09)	0.3753	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
IPI00759835	112 kDa protein	S 261	38% (2.09)	0.3753	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 1646	37% (8.21)	0.3728	2	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 1651	37% (8.21)	0.3728	2	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00032342	Thyroid receptor-interacting protein 12	S 806	37% (4.59)	0.3727	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00398505	Ubiquitin carboxyl-terminal hydrolase 24	S 1612	37% (1.94)	0.3716	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
IPI00290337	Epidermal growth factor receptor kinase substrate 8	S 478	37% (7.34)	0.3710	2	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00178047	Proline and glutamic acid rich nuclear protein isoform	S 655	37% (6.65)	0.3707	2	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00015526	Isoform 1 of Histone-lysine N-methyltransferase, H3 lysine-9 specific 5	S 287	37% (4.12)	0.3705	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216442	OTTHUMP00000022712	S 287	37% (4.12)	0.3705	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216443	Isoform 3 of Histone-lysine N-methyltransferase, H3 lysine-9 specific 5	S 287	37% (4.12)	0.3705	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00384472	EHMT1 protein	S 318	37% (4.12)	0.3705	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00645334	Isoform 2 of Histone-lysine N-methyltransferase, H3 lysine-9 specific 5	S 287	37% (4.12)	0.3705	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00254338	LOC162427 protein	S 436	37% (5.67)	0.3704	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00015029	Prostaglandin E synthase 3	S 100	37% (1.52)	0.3703	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
IPI00008200	Isoform 1 of YEATS domain-containing protein 2	S 367	37% (3.12)	0.3701	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514311	CTTNBP2 N-terminal-like protein	S 477	37% (5.59)	0.3696	3	1	0	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00298949	Cyclin G-associated kinase	S 780	37% (7.28)	0.3681	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00007183	Hypothetical protein ARL6IP2	S 27	37% (6.78)	0.3673	5	4	0	0	3	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00169267	ARL6IP2	S 27	37% (6.78)	0.3673	5	4	0	0	3	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00186008	START domain containing 10	S 217	37% (3.31)	0.3669	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746279	40 kDa protein	S 216	37% (3.31)	0.3669	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00657953	triple functional domain	S 1901	37% (4.05)	0.3664	3	1	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00156689	Synaptic vesicle membrane protein VAT-1 homolog	S 17	37% (7.13)	0.3652	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00299512	Isoform 2 of Neurofibromin	S 2515	36% (4.85)	0.3643	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
IPI00304235	Isoform 1 of Neurofibromin	S 2494	36% (4.85)	0.3643	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
IPI00445401	Isoform 2 of HECT, UBA and WWE domain-containing protein 1	S 2918	36% (7.21)	0.3642	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00456919	Isoform 1 of HECT, UBA and WWE domain-containing protein 1	S 2918	36% (7.21)	0.3642	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00643153	Isoform 3 of HECT, UBA and WWE domain-containing protein 1	S 2909	36% (7.21)	0.3642	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00216540	Isoform 4 of Protein kinase C-binding protein 1	S 63	36% (3.98)	0.3638	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00418316	RACK7 isoform e	S 459	36% (3.98)	0.3638	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00640598	protein kinase C binding protein 1 isoform a	S 459	36% (3.98)	0.3638	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00718938	Isoform 6 of Protein kinase C-binding protein 1	S 294	36% (3.98)	0.3638	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00719682	Isoform 7 of Protein kinase C-binding protein 1	S 458	36% (3.98)	0.3638	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00740207	RACK7 isoform j	S 434	36% (3.98)	0.3638	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00741204	RACK7 isoform f	S 434	36% (3.98)	0.3638	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748579	RACK7 isoform d	S 434	36% (3.98)	0.3638	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00302149	Isoform 1 of Polyhomeotic-like protein 3	S 762	36% (2.99)	0.3625	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00658100	Isoform 2 of Polyhomeotic-like protein 3	S 743	36% (2.99)	0.3625	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00007334	Isoform 1 of Apoptotic chromatin condensation inducer in the nucleus	S 425	36% (3.98)	0.3621	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00470461	Hypothetical protein DKFZp686L2367	S 334	36% (3.64)	0.3605	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00106955	Hypothetical protein LOC144097	S 121	36% (2.02)	0.3600	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00158615	Isoform 1 of THO complex subunit 2	S 1375	36% (2.81)	0.3596	1	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0
IPI00001738	Nuclear pore complex protein Nup88	S 49	36% (5.47)	0.3594	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00013174	Isoform 1 of RNA-binding protein 14	S 571	36% (5.47)	0.3594	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022970	Nucleoprotein TPR	S 633	36% (5.47)	0.3594	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00221325	Ran-binding protein 2	S 1263	36% (1.73)	0.3578	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00013452	glutamyl-prolyl tRNA synthetase	S 882	36% (5.55)	0.3574	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00013452	glutamyl-prolyl tRNA synthetase	S 883	36% (5.55)	0.3574	2	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00026219	Cleavage and polyadenylation specificity factor, 160 kDa subunit	S 737	36% (6.59)	0.3569	2	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00292753	GTPase activating protein and VPS9 domains 1	S 975	36% (6.59)	0.3569	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00742770	KIAA1521 protein	S 787	36% (6.59)	0.3569	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00328089	Kappa B and V(D)J recombination signal sequences binding protein	S 1002	36% (1.24)	0.3567	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00003842	Isoform 1 of Microtubule-associated protein 2	S 725	36% (6.04)	0.3566	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00010728	203 kDa protein	S 725	36% (6.04)	0.3566	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00472094	Isoform 3 of Microtubule-associated protein 2	S 721	36% (6.04)	0.3566	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00646377	Isoform 1 of Eukaryotic translation initiation factor 4 gamma 3	S 487	35% (2.87)	0.3549	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00418234	Methyl-CpG-binding protein 2	S 360	35% (4.67)	0.3545	2	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00645192	Methyl CpG binding protein 2 isoform B	S 372	35% (4.67)	0.3545	2	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00396378	Isoform B1 of Heterogeneous nuclear ribonucleoproteins A2/B1	S 341	35% (5.08)	0.3541	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00383597	Isoform A of Anion exchange protein 2	S 443	35% (3.82)	0.3529	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00477139	Isoform B1 of Anion exchange protein 2	S 429	35% (3.82)	0.3529	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00028122	Isoform 1 of PC4 and SFRS1-interacting protein	S 102	35% (6.08)	0.3505	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00019996	modulator of estrogen induced transcription isoform b	S 532	35% (0.00)	0.3503	5	0	0	0	0	0	0	0	2	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00171749	modulator of estrogen induced transcription isoform a	S 550	35% (0.00)	0.3503	5	0	0	0	0	0	0	0	2	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00419433	Isoform 1 of Rab11 family-interacting protein 1	S 343	35% (6.59)	0.3500	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00445401	Isoform 2 of HECT, UBA and WWE domain-containing protein 1	S 2619	35% (6.44)	0.3490	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456919	Isoform 1 of HECT, UBA and WWE domain-containing protein 1	S 2619	35% (6.44)	0.3490	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00643153	Isoform 3 of HECT, UBA and WWE domain-containing protein 1	S 2610	35% (6.44)	0.3490	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022215	Activity-dependent neuroprotector	S 1071	35% (3.74)	0.3482	7	4	0	1	0	0	0	0	1	2	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00656088	Isoform 1 of Ras-associated and pleckstrin homology domains-containing protein 1	S 1019	35% (1.57)	0.3477	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00032374	Isoform 2 of Protein KIAA0179	S 714	35% (9.34)	0.3474	1	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00290952	Isoform 1 of Protein KIAA0179	S 732	35% (9.34)	0.3474	1	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00173461	Junctophilin-1	S 478	35% (0.00)	0.3467	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00026219	Cleavage and polyadenylation specificity factor, 160 kDa subunit	S 758	35% (6.56)	0.3457	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00303797	B-Raf proto-oncogene serine/threonine-protein kinase	S 364	34% (2.25)	0.3424	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00299571	CDNA FLJ45525 fis, clone BRTHA2026311, highly similar to Protein disulfide isomerase A6	S 200	34% (0.00)	0.3418	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00011593	Fos-related antigen 2	S 17	34% (4.44)	0.3413	2	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00166487	Isoform 3 of Protein KIAA0310	S 391	34% (4.44)	0.3413	1	5	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00219314	Isoform 2 of Protein KIAA0310	S 391	34% (4.44)	0.3413	1	5	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00641384	Isoform 1 of Protein KIAA0310	S 391	34% (4.44)	0.3413	1	5	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00001735	nuclear receptor co-repressor 2	S 2056	34% (7.43)	0.3402	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00034006	Tyrosine-protein phosphatase non-receptor type 23	S 1123	34% (9.69)	0.3400	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00396279	CLIP-associating protein 1	S 1193	34% (0.00)	0.3399	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00645145	CLASP1 protein	S 1126	34% (0.00)	0.3399	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00103516	Caskin-2	S 842	34% (2.61)	0.3397	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00296388	Isoform 1 of Bromodomain adjacent to zinc finger domain 2A	S 482	34% (2.61)	0.3397	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00745274	bromodomain adjacent to zinc finger domain, 2A	S 512	34% (2.61)	0.3397	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00759742	Isoform 2 of Bromodomain adjacent to zinc finger domain 2A	S 512	34% (2.61)	0.3397	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00174962	Molecule interacting with Rab13	S 391	34% (2.61)	0.3397	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00396057	Isoform C of Protein C9orf10	S 506	34% (0.00)	0.3388	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00743942	Similar to C90rf10-like protein	S 505	34% (0.00)	0.3388	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00554648	Keratin, type II cytoskeletal 8	S 73	34% (4.67)	0.3381	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 830	34% (3.98)	0.3377	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 835	34% (3.98)	0.3377	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00038698	Retinoblastoma-associated protein RAP140	S 756	34% (5.07)	0.3374	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
IPI00054042	Isoform 1 of General transcription factor II-I	S 679	34% (3.54)	0.3374	5	2	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00217449	Isoform 3 of General transcription factor II-I	S 659	34% (3.54)	0.3374	5	2	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00217450	Isoform 4 of General transcription factor II-I	S 658	34% (3.54)	0.3374	5	2	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00293242	Isoform 2 of General transcription factor II-I	S 638	34% (3.54)	0.3374	5	2	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00442167	CDNA FLJ16400 fis, clone TUTER2000057, moderately similar to Mus musculus AE-1 binding protein AEB	S 211	34% (0.00)	0.3362	2	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00744767	SAMD4A protein	S 252	33% (0.00)	0.3347	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00000897	Probable helicase with zinc-finger domain	S 1311	33% (4.59)	0.3344	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00008240	Methionyl-tRNA synthetase	S 825	33% (3.48)	0.3338	6	4	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00298289	Isoform 2 of Reticulon-4	S 184	33% (6.67)	0.3334	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0
IPI00425560	Isoform 1 of LAP4 protein	S 1223	33% (0.00)	0.3333	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00425566	Isoform 4 of LAP4 protein	S 1223	33% (0.00)	0.3333	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00004671	Golgin subfamily B member 1	S 139	33% (0.00)	0.3333	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00009329	Utrophin	S 1795	33% (0.00)	0.3333	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00013743	Hypothetical protein BUD13	S 126	33% (0.00)	0.3333	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00015618	Hypothetical protein FLJ20291	S 217	33% (3.92)	0.3333	4	6	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0
IPI00021439	Actin, cytoplasmic 1	S 239	33% (0.00)	0.3333	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00021440	Actin, cytoplasmic 2	S 239	33% (0.00)	0.3333	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00026497	Isoform 1 of Poly [ADP-ribose] polymerase 2	S 33	33% (0.00)	0.3333	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00027415	DEAH (Asp-Glu-Ala-His) box polypeptide 36	S 1008	33% (0.00)	0.3333	3	2	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00062120	Protein S100-A16	S 102	33% (0.00)	0.3333	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
IPI00095032	PREDICTED: hypothetical protein LOC146439	S 349	33% (0.00)	0.3333	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00100453	DENN domain containing protein	S 774	33% (0.00)	0.3333	4	3	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00180625	KIAA0284 protein	S 292	33% (11.10)	0.3333	1	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0
IPI00181905	Isoform 1 of Protein KIAA1914	S 346	33% (0.00)	0.3333	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00217760	DHX36 protein	S 979	33% (0.00)	0.3333	3	2	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00220995	Isoform 2 of Poly [ADP-ribose] polymerase 2	S 33	33% (0.00)	0.3333	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00291016	NADH-ubiquinone oxidoreductase flavoprotein 3 isoform a precursor	S 466	33% (0.00)	0.3333	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00291638	RB1-inducible coiled-coil protein 1	S 237	33% (0.00)	0.3333	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00296291	HP1-BP74	S 155	33% (0.00)	0.3333	3	4	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0
IPI00305020	SH2 domain-containing protein 3A	S 179	33% (0.00)	0.3333	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00305020	SH2 domain-containing protein 3A	S 180	33% (0.00)	0.3333	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00329488	Isoform IB of Tyrosine-protein kinase ABL2	S 631	33% (0.00)	0.3333	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00373869	Homeodomain-like containing protein	S 35	33% (0.00)	0.3333	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00383728	Isoform IA of Tyrosine-protein kinase ABL2	S 595	33% (0.00)	0.3333	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00419847	Isoform Alpha of Vinexin	S 545	33% (0.00)	0.3333	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
IPI00455138	IMP dehydrogenase/GMP reductase family protein	S 374	33% (0.00)	0.3333	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00456359	Isoform 1 of Ataxin-2-like protein	S 390	33% (0.00)	0.3333	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
IPI00456359	Isoform 1 of Ataxin-2-like protein	S 391	33% (0.00)	0.3333	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456361	Isoform 2 of Ataxin-2-like protein	S 390	33% (0.00)	0.3333	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
IPI00456361	Isoform 2 of Ataxin-2-like protein	S 391	33% (0.00)	0.3333	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456363	Isoform 3 of Ataxin-2-like protein	S 390	33% (0.00)	0.3333	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
IPI00456363	Isoform 3 of Ataxin-2-like protein	S 391	33% (0.00)	0.3333	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456365	Isoform 4 of Ataxin-2-like protein	S 390	33% (0.00)	0.3333	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
IPI00456365	Isoform 4 of Ataxin-2-like protein	S 391	33% (0.00)	0.3333	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456367	Isoform 5 of Ataxin-2-like protein	S 390	33% (0.00)	0.3333	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
IPI00456367	Isoform 5 of Ataxin-2-like protein	S 391	33% (0.00)	0.3333	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456369	Isoform 6 of Ataxin-2-like protein	S 390	33% (0.00)	0.3333	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
IPI00456369	Isoform 6 of Ataxin-2-like protein	S 391	33% (0.00)	0.3333	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00472540	Isoform Beta of Vinexin	S 203	33% (0.00)	0.3333	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
IPI00642238	Hypothetical protein DKFZp434I0612	S 155	33% (0.00)	0.3333	3	4	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0
IPI00646377	Isoform 1 of Eukaryotic translation initiation factor 4 gamma 3	S 1157	33% (0.00)	0.3333	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00646486	HP1-BP74	S 117	33% (0.00)	0.3333	3	4	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0
IPI00719587	Isoform IC of Tyrosine-protein kinase ABL2	S 616	33% (0.00)	0.3333	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00740155	Hypothetical protein DKFZp686J17211	S 249	33% (0.00)	0.3333	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00744429	61 kDa protein	S 155	33% (0.00)	0.3333	3	4	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0
IPI00745593	V-abl Abelson murine leukemia viral oncogene homolog 2	S 616	33% (0.00)	0.3333	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00746398	hypothetical protein LOC55667	S 890	33% (0.00)	0.3333	4	3	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 332	33% (0.00)	0.3333	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00006213	Pericentriol material 1	S 69	33% (5.84)	0.3329	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005648	Scaffold attachment factor B2	S 245	33% (8.22)	0.3314	4	5	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0
IPI00015973	Band 4.1-like protein 2	S 683	33% (3.44)	0.3314	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00217340	KIBRA protein	S 947	33% (3.44)	0.3314	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00646058	103 kDa protein	S 246	33% (8.22)	0.3314	4	5	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0
IPI00400873	Chromosome 10 open reading frame 18	S 2035	33% (1.42)	0.3307	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00479893	PREDICTED: similar to retinoblastoma-associated protein 140 isoform 4	S 2035	33% (1.42)	0.3307	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00025310	Zinc finger protein 217	S 662	33% (5.71)	0.3307	3	2	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00646885	Rho GTPase activating protein 5 isoform a	S 951	33% (7.07)	0.3300	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00009326	65 kDa Yes-associated protein	S 131	33% (6.08)	0.3299	2	6	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	1	0	1	0	1
IPI00216919	YAP1 protein	S 131	33% (6.08)	0.3299	2	6	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	1	0	1	0	1
IPI00000897	Probable helicase with zinc-finger domain	S 1620	33% (6.67)	0.3298	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00221106	splicing factor 3B subunit 2	S 362	33% (3.39)	0.3288	3	1	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00550506	Isoform 1 of Rho guanine nucleotide exchange factor 16	S 185	33% (7.18)	0.3284	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00744288	Isoform 5 of C-jun-amino-terminal kinase-interacting protein 4	S 718	33% (2.61)	0.3274	4	5	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00329638	Isoform 1 of Mitogen-activated protein kinase kinase kinase MLT	S 508	33% (-0.29)	0.3262	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00002564	DNA-repair protein XRCC1	S 446	33% (19.08)	0.3253	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00101942	Calmin	S 920	33% (9.42)	0.3252	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00166487	Isoform 3 of Protein KIAA0310	S 1263	32% (3.44)	0.3245	3	1	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219314	Isoform 2 of Protein KIAA0310	S 1263	32% (3.44)	0.3245	3	1	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641384	Isoform 1 of Protein KIAA0310	S 1263	32% (3.44)	0.3245	3	1	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218729	Isoform 2 of Disks large homolog 1	S 102	32% (8.26)	0.3244	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00552511	Isoform 4 of Disks large homolog 1	S 102	32% (8.26)	0.3244	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00007277	LRR FLI-I interacting protein 2	S 320	32% (4.12)	0.3240	3	5	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	1	1	0	0	0
IPI00337530	Isoform 1 of RalBP1-associated Eps domain-containing protein 1	S 110	32% (2.68)	0.3234	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00337532	Isoform 3 of RalBP1-associated Eps domain-containing protein 1	S 110	32% (2.68)	0.3234	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00178440	Elongation factor 1-beta	S 94	32% (4.08)	0.3223	1	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00414723	PREDICTED: similar to eukaryotic translation elongation factor 1 beta 2	S 95	32% (4.08)	0.3223	1	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00220754	Isoform 1 of Gamma-adducin	S 647	32% (2.29)	0.3205	3	4	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	1	0	1
IPI00008529	60S acidic ribosomal protein P2	S 64	32% (1.19)	0.3204	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00168849	Cdc42-interaction protein 4 long isoform	S 298	32% (0.00)	0.3195	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00005809	Serum deprivation-response protein	S 366	32% (5.27)	0.3186	2	7	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0
IPI00007675	Cytoplasmic dynein 1 light intermediate chain 1	S 510	32% (5.60)	0.3185	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00297251	MGRN1 protein	S 506	32% (5.31)	0.3177	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00643212	KIAA0544 protein	S 506	32% (5.31)	0.3177	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00186966	Isoform IIA of Myc box-dependent-interacting protein 1	S 333	32% (4.67)	0.3171	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00220587	Isoform BIN1+12A of Myc box-dependent-interacting protein 1	S 317	32% (4.67)	0.3171	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00220996	Isoform IIB of Myc box-dependent-interacting protein 1	S 302	32% (4.67)	0.3171	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00220998	Isoform II2 of Myc box-dependent-interacting protein 1	S 302	32% (4.67)	0.3171	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00025330	Isoform 2 of Cyclin-L1	S 135	32% (5.47)	0.3163	4	4	0	1	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0
IPI00654682	Isoform 1 of Cyclin-L1	S 341	32% (5.47)	0.3163	4	4	0	1	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0
IPI00654740	Isoform 3 of Cyclin-L1	S 114	32% (5.47)	0.3163	4	4	0	1	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0
IPI00398002	plectin 1 isoform 1	S 22	32% (3.98)	0.3163	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00335641	Isoform 1 of MKL/myocardin-like protein 2	S 849	32% (4.05)	0.3158	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
IPI00418489	Isoform 4 of MKL/myocardin-like protein 2	S 810	32% (4.05)	0.3158	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
IPI00221325	Ran-binding protein 2	S 2250	31% (4.64)	0.3143	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00472901	chromodomain helicase DNA binding protein 7	S 559	31% (2.09)	0.3141	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00658093	61 kDa protein	S 488	31% (3.13)	0.3141	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00007935	PDZ and LIM domain protein 5	S 114	31% (4.94)	0.3132	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00180764	Histone acetyltransferase MYST2	S 124	31% (5.24)	0.3117	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00398505	Ubiquitin carboxyl-terminal hydrolase 24	S 1610	31% (0.99)	0.3102	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00002255	Lipopolysaccharide-responsive and beige-like anchor protein	S 1767	31% (7.38)	0.3097	3	2	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
IPI00021537	Isoform 1 of Opioid growth factor receptor	S 517	31% (5.58)	0.3096	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00418991	CDNA FLJ44035 fis, clone TESTI4028612	S 748	31% (5.55)	0.3089	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00742090	QSER1 protein (Fragment)	S 987	31% (5.55)	0.3089	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00083708	HBxAg transactivated protein 2	S 1265	31% (0.00)	0.3085	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00739117	HBxAg transactivated protein 2	S 1263	31% (0.00)	0.3085	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00158615	Isoform 1 of THO complex subunit 2	S 1344	31% (8.79)	0.3084	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00298058	Isoform 1 of Transcription elongation factor SPT5	S 36	31% (0.00)	0.3063	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00479229	121 kDa protein	S 36	31% (0.00)	0.3063	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00655641	Isoform 2 of Transcription elongation factor SPT5	S 36	31% (0.00)	0.3063	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00743277	121 kDa protein	S 36	31% (0.00)	0.3063	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00413362	signal-induced proliferation-associated 1 like 1	S 1568	30% (1.22)	0.3046	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00435422	Isoform 2 of Signal-induced proliferation-associated 1-like protein 1	S 1547	30% (1.22)	0.3046	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005688	Zinc finger protein 185	S 68	30% (3.72)	0.3033	1	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	0	0	0
IPI00291755	Isoform 1 of Nuclear pore membrane glycoprotein 210 precursor	S 1881	30% (1.99)	0.3033	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00291802	Isoform 3 of LIM domain only protein 7	S 657	30% (2.81)	0.3030	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00334126	Ral GEF with PH domain and SH3 binding motif 2, isoform 2	S 296	30% (2.93)	0.3026	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00644990	Ral GEF with PH domain and SH3 binding motif 2	S 261	30% (2.93)	0.3026	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00022970	Nucleoprotein TPR	S 523	30% (7.06)	0.3021	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00478979	PREDICTED: similar to SLIT-ROBO Rho GTPase-activating protein 2	S 370	30% (0.85)	0.3014	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00479125	SLIT-ROBO Rho GTPase-activating protein 2	S 799	30% (0.85)	0.3014	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00033022	Isoform 1 of Dynamin-2	S 762	30% (9.46)	0.3011	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00181352	dynamin 2 isoform 4	S 758	30% (9.46)	0.3011	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00218889	Isoform 2 of Dynamin-2	S 758	30% (9.46)	0.3011	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00477431	98 kDa protein	S 762	30% (9.46)	0.3011	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00514550	dynamin 2 isoform 2	S 762	30% (9.46)	0.3011	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00154915	Isoform 1 of Partitioning-defective 3 homolog	S 692	30% (3.28)	0.3010	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00179063	Isoform 4 of Partitioning-defective 3 homolog	S 692	30% (3.28)	0.3010	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00301595	Isoform 2 of Partitioning-defective 3 homolog	S 692	30% (3.28)	0.3010	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00301597	Par-3 partitioning defective 3 homolog	S 635	30% (3.28)	0.3010	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00166487	Isoform 3 of Protein KIAA0310	S 1905	30% (8.18)	0.2997	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219314	Isoform 2 of Protein KIAA0310	S 1905	30% (8.18)	0.2997	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641384	Isoform 1 of Protein KIAA0310	S 1905	30% (8.18)	0.2997	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00008575	Isoform 1 of KH domain-containing, RNA-binding, signal transduction-associated protein 1	S 58	30% (4.92)	0.2977	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00082310	Isoform 3 of KH domain-containing, RNA-binding, signal transduction-associated protein 1	S 58	30% (4.92)	0.2977	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00465287	ras responsive element binding protein 1 isoform 2	S 1225	30% (4.35)	0.2975	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00465288	ras responsive element binding protein 1 isoform 1	S 1225	30% (4.35)	0.2975	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00221394	H/ACA ribonucleoprotein complex subunit 4	S 454	30% (5.55)	0.2967	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00171422	CDNA PSEC0094 fis, clone NT2RP2001499, weakly similar to PROTEIN PTM1	S 408	29% (0.00)	0.2949	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00063605	jub, ajuba homolog isoform 1	S 136	29% (4.85)	0.2941	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1	0	0	0
IPI00166680	Isoform 3 of Misshapen-like kinase 1	S 916	29% (3.53)	0.2927	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00479262	Isoform B of Eukaryotic translation initiation factor 4 gamma 1	S 314	29% (6.90)	0.2919	2	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00023532	Hypothetical protein DKFZp564A2416	S 120	29% (3.88)	0.2904	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00295457	myosin phosphatase-Rho interacting protein isoform 1	S 1014	29% (0.00)	0.2892	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010368	Kinesin-like protein KIF2	S 566	29% (1.72)	0.2883	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1658	29% (3.44)	0.2882	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00292753	GTPase activating protein and VPS9 domains 1	S 757	29% (8.65)	0.2872	3	3	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00742770	KIAA1521 protein	S 596	29% (8.65)	0.2872	3	3	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00292134	Epidermal growth factor receptor substrate 15	S 107	29% (2.76)	0.2866	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00385325	Epidermal growth factor receptor pathway substrate 15	S 107	29% (2.76)	0.2866	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00169345	Protein NEDD1	S 468	29% (5.78)	0.2862	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00383597	Isoform A of Anion exchange protein 2	S 446	28% (2.58)	0.2844	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00477139	Isoform B1 of Anion exchange protein 2	S 432	28% (2.58)	0.2844	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00010414	PDZ and LIM domain protein 1	S 83	28% (1.70)	0.2843	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00006196	Isoform 2 of Nuclear mitotic apparatus protein 1	S 1228	28% (1.36)	0.2840	3	7	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0
IPI00292771	Isoform 1 of Nuclear mitotic apparatus protein 1	S 1228	28% (1.36)	0.2840	3	7	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0
IPI00298696	Treacle protein	S 298	28% (8.78)	0.2837	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00747047	Treacle major isoform	S 375	28% (8.78)	0.2837	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00017504	Protein C9orf40	S 76	28% (1.29)	0.2831	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00640818	Neuropathy target esterase	S 353	28% (2.15)	0.2827	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
IPI00002804	Serine/threonine-protein kinase N2	S 535	28% (2.53)	0.2819	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00514221	112 kDa protein	S 535	28% (2.53)	0.2819	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00745366	PKN2 protein	S 74	28% (2.53)	0.2819	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00102059	Kinase-like protein	S 559	28% (3.98)	0.2807	1	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00290410	Acidic 82 kDa protein mRNA	S 189	28% (4.78)	0.2801	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00069309	Hypothetical protein DKFZp434K1815	S 245	28% (9.16)	0.2794	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00554648	Keratin, type II cytoskeletal 8	S 431	28% (8.21)	0.2787	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00329236	Protein kinase C delta type	S 306	28% (1.54)	0.2783	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00384562	protein kinase C, delta	S 306	28% (1.54)	0.2783	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00383396	Isoform 1 of Autophagy-related protein 9A	S 18	28% (1.54)	0.2783	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00102752	Isoform 1 of Putative RNA-binding protein 15	S 259	28% (0.00)	0.2779	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00220716	Isoform 2 of Putative RNA-binding protein 15	S 259	28% (0.00)	0.2779	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00220717	Isoform 3 of Putative RNA-binding protein 15	S 259	28% (0.00)	0.2779	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00166680	Isoform 3 of Misshapen-like kinase 1	S 918	28% (4.08)	0.2774	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00306195	CDNA FLJ30949 fis, clone HCASM1000021, weakly similar to Plasmodium berghei strain NYU2 merozoite	S 112	28% (2.89)	0.2767	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00549786	AKT1S1 protein	S 92	28% (2.89)	0.2767	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0
IPI00026307	Pre-mRNA-splicing factor PRP17	S 46	28% (2.60)	0.2757	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00555610	313 kDa protein	S 2806	28% (0.00)	0.2753	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00006029	Isoform 1 of Forkhead box protein K2	S 368	27% (3.85)	0.2747	3	4	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0
IPI00220426	Isoform 2 of Forkhead box protein K2	S 368	27% (3.85)	0.2747	3	4	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0
IPI00385966	forkhead box K2 isoform 1	S 373	27% (3.85)	0.2747	3	4	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0
IPI00021695	Isoform D of Plasma membrane calcium-transporting ATPase 1	S 1257	27% (4.44)	0.2740	2	3	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0
IPI00216527	Isoform B of Plasma membrane calcium-transporting ATPase 1	S 1219	27% (4.44)	0.2740	2	3	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0
IPI00216528	Isoform C of Plasma membrane calcium-transporting ATPase 1	S 1248	27% (4.44)	0.2740	2	3	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0
IPI00216530	Isoform K of Plasma membrane calcium-transporting ATPase 1	S 1183	27% (4.44)	0.2740	2	3	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0
IPI00328293	SerineW/arginine repetitive matrix 1	S 704	27% (10.05)	0.2717	6	8	1	0	0	0	0	0	1	1	0	1	0	0	2	0	0	0	0	0	1	0	1	1	0	0	0	2	0	0	0	0	1	1	0	1	0	0
IPI00456970	Isoform 1 of Cell division cycle 2-like protein kinase 5	S 527	27% (7.38)	0.2705	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00658152	tensin-like SH2 domain containing 1	S 662	27% (7.38)	0.2705	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00759836	Tensin	S 764	27% (7.38)	0.2705	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	S 1059	27% (0.00)	0.2705	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00180266	WW domain-containing transcription regulator protein 1	S 90	27% (4.01)	0.2703	2	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0
IPI00103516	Caskin-2	S 708	27% (1.40)	0.2702	4	1	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010700	Isoform 1 of Large proline-rich protein BAT2	S 1110	27% (2.29)	0.2695	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00012645	Isoform 1 of Spectrin beta chain, brain 2	S 349	27% (2.29)	0.2695	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00016780	Isoform 1 of PR domain zinc finger protein 2	S 739	27% (2.29)	0.2695	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00084746	229 kDa protein	S 1110	27% (2.29)	0.2695	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00376933	HLA-B associated transcript-2 isoform b	S 1098	27% (2.29)	0.2695	* 1	* 2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00742934	HLA-B associated transcript-2 isoform a	S 1110	27% (2.29)	0.2695	* 1	* 2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00658152	tensin-like SH2 domain containing 1	S 730	27% (5.74)	0.2692	0	* 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
IPI00759836	Tensin	S 832	27% (5.74)	0.2692	0	* 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
IPI00013933	Isoform DPI of Desmoplakin	S 2610	27% (3.72)	0.2682	* 1	* 5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0
IPI00071185	Isoform SV1 of PITSLRE serine/threonine-protein kinase CDC2L1	S 576	27% (0.00)	0.2672	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00071188	Isoform SV10 of PITSLRE serine/threonine-protein kinase CDC2L1	S 542	27% (0.00)	0.2672	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00215999	Isoform SV9 of PITSLRE serine/threonine-protein kinase CDC2L1	S 589	27% (0.00)	0.2672	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00297191	CRSP complex subunit 2	S 995	27% (0.71)	0.2657	* 3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00411715	Isoform 2 of Nuclear factor NF-kappa-B p100 subunit	S 220	27% (8.51)	0.2654	* 1	* 2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00006196	Isoform 2 of Nuclear mitotic apparatus protein 1	S 1229	27% (1.91)	0.2652	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00292771	Isoform 1 of Nuclear mitotic apparatus protein 1	S 1229	27% (1.91)	0.2652	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00013184	N-terminal acetyltransferase complex ARD1 subunit homolog A	S 209	27% (3.65)	0.2651	* 1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005202	Membrane-associated progesterone receptor component 2	S 208	26% (0.00)	0.2650	* 1	* 1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00012885	Isoform 1 of Focal adhesion kinase 1	S 716	26% (3.13)	0.2625	* 2	* 4	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00413961	PTK2 protein tyrosine kinase 2 isoform b	S 738	26% (3.13)	0.2625	* 2	* 4	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00749256	PTK2 protein tyrosine kinase 2 isoform b variant (Fragment)	S 668	26% (3.13)	0.2625	* 2	* 4	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00335641	Isoform 1 of MKL/myocardin-like protein 2	S 546	26% (3.60)	0.2624	* 1	* 2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00418489	Isoform 4 of MKL/myocardin-like protein 2	S 557	26% (3.60)	0.2624	* 1	* 2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00031698	Hypothetical protein MGC5509	S 182	26% (0.00)	0.2622	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00002255	Lipopolysaccharide-responsive and beige-like anchor protein	S 2064	26% (1.24)	0.2616	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00015404	Isoform 1 of AT-rich interactive domain-containing protein 1B	S 1557	26% (4.84)	0.2609	* 1	* 2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00395617	Isoform 2 of AT-rich interactive domain-containing protein 1B	S 1570	26% (4.84)	0.2609	* 1	* 2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00396577	Isoform 3 of AT-rich interactive domain-containing protein 1B	S 1610	26% (4.84)	0.2609	* 1	* 2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00742937	AT rich interactive domain 1B (SWI1-like) isoform 1	S 1552	26% (4.84)	0.2609	* 1	* 2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	S 1854	26% (3.39)	0.2600	0	* 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00604399	Isoform 2 of Fanconi anemia group D2 protein	S 590	26% (11.10)	0.2595	* 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00102575	ATP(GTP)-binding protein	S 302	26% (5.94)	0.2594	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00307733	huntingtin interacting protein B	S 1391	26% (0.00)	0.2590	* 1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00438229	Isoform 1 of Transcription intermediary factor 1-beta	S 823	26% (3.64)	0.2584	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00180154	Isoform 1 of Ataxin-2	S 773	26% (0.00)	0.2572	* 1	* 1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00455359	Isoform 2 of Ataxin-2	S 771	26% (0.00)	0.2572	* 1	* 1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00455363	Isoform 4 of Ataxin-2	S 771	26% (0.00)	0.2572	* 1	* 1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00719520	ATXN2 protein (Fragment)	S 561	26% (0.00)	0.2572	* 1	* 1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00064212	KIAA1802 protein (Fragment)	S 471	26% (1.33)	0.2567	* 1	* 2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00414497	Chromosome 13 open reading frame 8	S 462	26% (1.33)	0.2567	* 1	* 2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00409671	DEAD box polypeptide 42 protein	S 111	26% (0.00)	0.2566	* 3	* 1	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00021320	Bin3, bicoid-interacting 3	S 217	26% (9.54)	0.2563	* 3	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00032003	Emerin	S 52	26% (6.11)	0.2562	* 1	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00021595	Glucocorticoid induced transcript 1	S 79	26% (5.74)	0.2562	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1102	26% (0.00)	0.2555	* 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00027272	breast cancer 1, early onset isoform BRCA1-delta14-17	S 114	25% (1.57)	0.2525	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00027273	breast cancer 1, early onset isoform BRCA1-delta14-18	S 114	25% (1.57)	0.2525	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218982	Breast cancer type 1 susceptibility protein	S 114	25% (1.57)	0.2525	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00297234	breast cancer 1, early onset isoform BRCA1-delta9-10	S 114	25% (1.57)	0.2525	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00028122	Isoform 1 of PC4 and SFRS1-interacting protein	S 118	25% (4.12)	0.2523	* 1	* 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00329115	Isoform 1 of Protein C10orf47	S 212	25% (8.22)	0.2522	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00644591	hypothetical protein LOC64423 isoform 2	S 616	25% (1.94)	0.2518	* 2	* 2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00398505	Ubiquitin carboxyl-terminal hydrolase 24	S 1139	25% (8.23)	0.2518	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00477825	Isoform 1 of Mesoderm induction early response protein 1	S 512	25% (2.11)	0.2516	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00478280	Isoform 10 of Mesoderm induction early response protein 1	S 505	25% (2.11)	0.2516	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00479032	Isoform 3 of Mesoderm induction early response protein 1	S 488	25% (2.11)	0.2516	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00655630	Isoform 8 of Mesoderm induction early response protein 1	S 509	25% (2.11)	0.2516	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00655783	Mesoderm induction early response 1	S 541	25% (2.11)	0.2516	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00656089	Isoform 7 of Mesoderm induction early response protein 1	S 461	25% (2.11)	0.2516	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00019205	Protein C14orf4	S 659	25% (0.00)	0.2516	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00165528	Isoform 2 of Ubiquitin carboxyl-terminal hydrolase 47	S 925	25% (2.70)	0.2515	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00607554	Isoform 1 of Ubiquitin carboxyl-terminal hydrolase 47	S 1013	25% (2.70)	0.2515	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00219841	DNA ligase 1	S 199	25% (0.00)	0.2505	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456970	Isoform 1 of Cell division cycle 2-like protein kinase 5	S 349	25% (0.00)	0.2504	* 1	* 2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00019205	Protein C14orf4	S 658	25% (0.00)	0.2503	* 1	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00002803	Serine/threonine-protein kinase N1	S 562	25% (0.00)	0.2500	* 1	* 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00003842	Isoform 1 of Microtubule-associated protein 2	S 1158	25% (0.00)	0.2500	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00003865	Isoform 1 of Heat shock cognate 71 kDa protein	S 16	25% (0.00)	0.2500	* 1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005688	Zinc finger protein 185	S 220	25% (0.00)	0.2500	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00006213	Pericentriol material 1	S 431	25% (0.00)	0.2500	* 2	* 1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR															
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00009315	Golgi resident protein GCP60	S 344	25% (0.00)	0.2500	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00009329	Utrophin	S 1865	25% (0.00)	0.2500	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00010728	203 kDa protein	S 1158	25% (0.00)	0.2500	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022479	guanine nucleotide exchange factor p532	S 2747	25% (0.00)	0.2500	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00033907	Anaphase-promoting complex subunit 1	S 564	25% (0.00)	0.2500	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00071185	Isoform SV1 of PITSLRE serine/threonine-protein kinase CDC2L1	S 739	25% (0.00)	0.2500	2	3	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
IPI00071188	Isoform SV10 of PITSLRE serine/threonine-protein kinase CDC2L1	S 705	25% (0.00)	0.2500	2	3	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
IPI00170865	Membrane-associated guanylate kinase-related 3	S 697	25% (0.00)	0.2500	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00215877	Isoform Short of Adenomatous polyposis coli protein	S 1673	25% (0.00)	0.2500	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00215965	heterogeneous nuclear ribonucleoprotein A1 isoform b	S 337	25% (0.00)	0.2500	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00215999	Isoform SV9 of PITSLRE serine/threonine-protein kinase CDC2L1	S 752	25% (0.00)	0.2500	2	3	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
IPI00221325	Ran-binding protein 2	S 1260	25% (0.00)	0.2500	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00289491	Protein CASC3	S 125	25% (0.00)	0.2500	3	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	S 879	25% (0.00)	0.2500	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00386700	ladinin 1	S 355	25% (0.00)	0.2500	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00398625	Hornerin	S 733	25% (0.00)	0.2500	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00412415	Isoform 1 of Bromodomain adjacent to zinc finger domain protein 1A	S 1546	25% (0.00)	0.2500	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00427522	Isoform 1 of Peroxisome proliferator-activated receptor-binding protein	S 1218	25% (0.00)	0.2500	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456359	Isoform 1 of Ataxin-2-like protein	S 557	25% (0.00)	0.2500	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456361	Isoform 2 of Ataxin-2-like protein	S 557	25% (0.00)	0.2500	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456363	Isoform 3 of Ataxin-2-like protein	S 557	25% (0.00)	0.2500	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456365	Isoform 4 of Ataxin-2-like protein	S 557	25% (0.00)	0.2500	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456367	Isoform 5 of Ataxin-2-like protein	S 557	25% (0.00)	0.2500	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456369	Isoform 6 of Ataxin-2-like protein	S 557	25% (0.00)	0.2500	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00472094	Isoform 3 of Microtubule-associated protein 2	S 1154	25% (0.00)	0.2500	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00472779	Ankyrin-3	S 4349	25% (0.00)	0.2500	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00478210	ankyrin 3 isoform 1	S 4349	25% (0.00)	0.2500	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00478979	PREDICTED: similar to SLIT-ROBO Rho GTPase-activating protein 2	S 512	25% (0.00)	0.2500	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00479125	SLIT-ROBO Rho GTPase-activating protein 2	S 928	25% (0.00)	0.2500	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514234	Ladinin 1	S 369	25% (0.00)	0.2500	2	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00554788	Keratin, type I cytoskeletal 18	S 405	25% (0.00)	0.2500	2	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00718792	LOC387680 protein (Fragment)	S 1052	25% (0.00)	0.2500	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00743026	179 kDa protein	S 1547	25% (0.00)	0.2500	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1232	25% (0.00)	0.2500	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005024	Isoform 1 of Myb-binding protein 1A	S 1186	25% (4.01)	0.2491	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00607584	Isoform 2 of Myb-binding protein 1A	S 1186	25% (4.01)	0.2491	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00152011	PTPL1-associated RhoGAP 1	S 929	25% (2.61)	0.2476	1	4	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0
IPI00009917	Isoform 3 of LAS1-like protein	S 583	25% (5.47)	0.2466	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641990	Isoform 1 of LAS1-like protein	S 642	25% (5.47)	0.2466	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00645869	Isoform 2 of LAS1-like protein	S 625	25% (5.47)	0.2466	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00470483	WD repeat domain 62	S 1249	25% (4.39)	0.2466	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00216049	Isoform 1 of Heterogeneous nuclear ribonucleoprotein K	S 214	24% (0.00)	0.2449	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 2171	24% (3.44)	0.2430	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00154515	Smad nuclear-interacting protein 1	S 49	24% (3.72)	0.2423	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00021595	Glucocorticoid induced transcript 1	S 76	24% (2.81)	0.2420	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413734	Isoform 6 of Transcriptional regulator ATRX	S 1928	24% (4.15)	0.2414	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00104050	Thyroid hormone receptor-associated protein 3	S 310	24% (6.56)	0.2413	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00386808	HDAC7A protein	S 360	24% (4.56)	0.2407	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00418482	Histone deacetylase	S 397	24% (4.56)	0.2407	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00743474	Isoform 1 of Histone deacetylase 7a	S 358	24% (4.56)	0.2407	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00749076	Isoform 3 of Histone deacetylase 7a	S 328	24% (4.56)	0.2407	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00307733	huntingtin interacting protein B	S 1385	24% (0.00)	0.2407	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00010833	Zinc finger protein 148	S 304	24% (2.44)	0.2397	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00552897	Isoform 1 of Mediator of DNA damage checkpoint protein 1	S 1605	24% (4.03)	0.2394	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00641106	227 kDa protein	S 1605	24% (4.03)	0.2394	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00554521	Ferritin heavy chain	S 178	24% (2.04)	0.2391	7	2	1	0	0	0	1	0	1	0	0	0	1	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
IPI00335437	CDNA FLJ13144 fis, clone NT2RP3003278	S 528	24% (3.86)	0.2385	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00152007	Tumor endothelial marker 4	S 461	24% (2.24)	0.2364	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218486	Isoform 1 of Protein phosphatase Slingshot homolog 3	S 16	24% (6.70)	0.2361	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00419433	Isoform 1 of Rab11 family-interacting protein 1	S 199	24% (4.12)	0.2354	2	5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
IPI00002188	Brefeldin A-inhibited guanine nucleotide-exchange protein 1	S 396	23% (2.99)	0.2345	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00513791	dedicator of cytokinesis 7	S 864	23% (2.99)	0.2345	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00012788	Isoform 2 of RNA polymerase I-associated factor PAF49	S 492	23% (0.00)	0.2340	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00645816	Isoform 1 of RNA polymerase I-associated factor PAF49	S 490	23% (0.00)	0.2340	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00470483	WD repeat domain 62	S 1144	23% (5.43)	0.2331	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00045856	CDNA FLJ14717 fis, clone NT2RP3001239, moderately similar to MICROTUBULE-ASSOCIATED PROTEIN 1	S 632	23% (0.00)	0.2327	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																				SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00296485	BPY2 interacting protein 1	S 632	23% (0.00)	0.2327	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00737659	PREDICTED: hypothetical protein LOC440193 isoform 1	S 1591	23% (2.29)	0.2325	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00740019	PREDICTED: similar to DVL-binding protein DAPLE isoform 9	S 1591	23% (2.29)	0.2325	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00218775	FK506-binding protein 5	S 445	23% (0.00)	0.2309	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00743671	51 kDa protein	S 445	23% (0.00)	0.2309	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00329236	Protein kinase C delta type	S 307	23% (1.44)	0.2300	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00384562	protein kinase C, delta	S 307	23% (1.44)	0.2300	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00163849	Epidermal growth factor receptor substrate 15-like 1	S 107	23% (6.70)	0.2298	9	6	1	1	0	0	0	0	1	1	1	0	0	0	1	2	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	1	1	1	0	0	0
IPI00646339	Hypothetical protein DKFZp586A0524	S 107	23% (6.70)	0.2298	9	6	1	1	0	0	0	0	1	1	1	0	0	0	1	2	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	1	1	1	0	0	0
IPI00449923	Isoform 1 of Retinoic acid-induced protein 1	S 1108	23% (0.00)	0.2295	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00449924	Isoform 2 of Retinoic acid-induced protein 1	S 1061	23% (0.00)	0.2295	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00647688	198 kDa protein	S 1059	23% (0.00)	0.2295	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00299526	Polycomb protein SUZ12	S 539	23% (0.00)	0.2294	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00009326	65 kDa Yes-associated protein	S 128	23% (3.98)	0.2292	5	3	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	1	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0
IPI00216919	YAP1 protein	S 128	23% (3.98)	0.2292	5	3	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	1	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0
IPI00159652	PREDICTED: hypothetical protein LOC23045 isoform 1	S 1932	23% (3.98)	0.2292	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00739607	PREDICTED: similar to CG32045-PB, isoform B isoform 5	S 1932	23% (3.98)	0.2292	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00017450	Transcription initiation factor IIF alpha subunit	S 217	23% (0.00)	0.2286	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00289608	Isoform 2 of AP-3 complex subunit delta-1	S 738	23% (0.00)	0.2286	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00719680	Isoform 5 of AP-3 complex subunit delta-1	S 827	23% (0.00)	0.2286	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00166512	stromal interaction molecule 1 precursor	S 620	23% (2.99)	0.2279	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00299063	Stromal interaction molecule 1 precursor	S 620	23% (2.99)	0.2279	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00025310	Zinc finger protein 217	S 654	23% (4.34)	0.2257	2	3	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00032150	Isoform 1 of Phosphatidate cytidylyltransferase 2	S 23	23% (1.99)	0.2254	2	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00024970	Inner centromere protein	S 300	22% (2.71)	0.2231	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00759472	inner centromere protein antigens 135/155kDa isoform 2	S 300	22% (2.71)	0.2231	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00307733	huntingtin interacting protein B	S 1388	22% (0.00)	0.2227	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00328306	Zinc finger CCCH-type domain-containing protein 11A	S 763	22% (1.06)	0.2202	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00290142	CTP synthase	S 573	22% (0.00)	0.2201	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00290142	CTP synthase	S 574	22% (0.00)	0.2201	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00025366	Citrate synthase, mitochondrial precursor	S 453	22% (0.00)	0.2178	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00044583	Isoform 1 of Transcriptional-regulating factor 1	S 689	22% (3.17)	0.2171	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00306265	A kinase anchor protein 10, mitochondrial precursor	S 189	22% (8.22)	0.2168	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00005809	Serum deprivation-response protein	S 409	22% (2.58)	0.2166	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00045914	Msx2-interacting protein	S 2126	22% (0.91)	0.2156	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00029048	Tubulin--tyrosine ligase-like protein 12	S 15	22% (0.43)	0.2153	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00409635	KIAA1228 protein	S 710	21% (0.00)	0.2150	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413734	Isoform 6 of Transcriptional regulator ATRX	S 92	21% (3.13)	0.2148	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00386700	ladinin 1	S 269	21% (2.54)	0.2140	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00514234	Ladinin 1	S 283	21% (2.54)	0.2140	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00470483	WD repeat domain 62	S 1226	21% (4.73)	0.2135	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00296337	Isoform 1 of DNA-dependent protein kinase catalytic subunit	S 2675	21% (6.13)	0.2133	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
IPI00009949	Proteasome inhibitor PI31 subunit	S 152	21% (6.12)	0.2123	5	1	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00643918	OTTHUMP00000029957	S 152	21% (6.12)	0.2123	5	1	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00297931	Isoform 1 of AP1 gamma subunit-binding protein 1	S 467	21% (2.43)	0.2120	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00375252	AP1GBP1 protein	S 389	21% (2.43)	0.2120	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00394715	AP1 gamma subunit binding protein 1 isoform 2	S 467	21% (2.43)	0.2120	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413728	Isoform 1 of Spectrin alpha chain, brain	S 1031	21% (0.00)	0.2099	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00020567	Rho-GTPase-activating protein 1	S 49	21% (0.00)	0.2095	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00005688	Zinc finger protein 185	S 280	21% (0.00)	0.2076	2	2	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00008283	Zinc finger protein 106 homolog	S 941	21% (0.00)	0.2075	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00291939	Structural maintenance of chromosome 1-like 1 protein	S 358	21% (0.00)	0.2064	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00170867	Isoform 1 of Death domain-associated protein 6	S 178	21% (5.55)	0.2055	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00220885	Isoform 2 of Death domain-associated protein 6	S 178	21% (5.55)	0.2055	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00643093	81 kDa protein	S 178	21% (5.55)	0.2055	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00083708	HBxAg transactivated protein 2	S 931	21% (0.32)	0.2051	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00739117	HBxAg transactivated protein 2	S 929	21% (0.32)	0.2051	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00166512	stromal interaction molecule 1 precursor	S 616	20% (4.55)	0.2046	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00299063	Stromal interaction molecule 1 precursor	S 616	20% (4.55)	0.2046	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00425404	Isoform 1 of Kinesin family member 21A	S 854	20% (2.29)	0.2045	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00425405	Isoform 2 of Kinesin family member 21A	S 841	20% (2.29)	0.2045	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00425407	Isoform 3 of Kinesin family member 21A	S 854	20% (2.29)	0.2045	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00425409	Isoform 4 of Kinesin family member 21A	S 854	20% (2.29)	0.2045	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00411635	KIAA0802 protein	S 1046	20% (0.00)	0.2043	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00247674	PREDICTED: hypothetical protein XP_292820	S 215	20% (0.00)	0.2034	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00103536	MAP-kinase activating death domain-containing protein isoform d	S 1239	20% (6.70)	0.2028	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00107838	MAP-kinase activating death domain-containing protein isoform a	S 1201	20% (6.70)	0.2028	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00107843	MAP-kinase activating death domain-containing protein isoform g	S 1239	20% (6.70)	0.2028	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00107844	MAP-kinase activating death domain-containing protein isoform a	S 1201	20% (6.70)	0.2028	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00237706	MAP-kinase activating death domain-containing protein isoform f	S 1158	20% (6.70)	0.2028	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00292094	MAP-kinase activating death domain-containing protein isoform b	S 1178	20% (6.70)	0.2028	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00292095	MAP-kinase activating death domain-containing protein isoform e	S 1221	20% (6.70)	0.2028	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00376607	MAP-kinase activating death domain-containing protein isoform c	S 1158	20% (6.70)	0.2028	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00398012	Fragile site-associated protein	S 2603	20% (0.00)	0.2024	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00470779	Alpha-taxilin	S 18	20% (1.14)	0.2017	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
IPI00217851	PHACTR4 protein	S 177	20% (0.00)	0.2015	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00432436	PHACTR4 protein	S 161	20% (0.00)	0.2015	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00657967	79 kDa protein	S 187	20% (0.00)	0.2015	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00291608	Isoform 1 of PEST-containing nuclear protein	S 108	20% (0.00)	0.2011	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00024970	Inner centromere protein	S 302	20% (1.54)	0.2002	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00759472	inner centromere protein antigens 135/155kDa isoform 2	S 302	20% (1.54)	0.2002	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00002406	Lutheran blood group glycoprotein precursor	S 598	20% (0.00)	0.2000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00002406	Lutheran blood group glycoprotein precursor	S 600	20% (-0.12)	0.2000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00004344	Isoform 1 of AF4/FMR2 family member 4	S 840	20% (0.00)	0.2000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00004472	Isoform 1 of Serine/threonine-protein kinase WNK1	S 2011	20% (0.00)	0.2000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00006211	VAMP-associated protein B/C	S 159	20% (0.00)	0.2000	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00006379	Nucleolar protein NOP5	S 351	20% (0.00)	0.2000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00007208	Probable ATP-dependent RNA helicase DDX41	S 23	20% (2.44)	0.2000	2	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00008137	Zinc finger protein 295	S 435	20% (0.00)	0.2000	1	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00008918	Isoform Beta of LIM domain and actin-binding protein 1	S 368	20% (0.00)	0.2000	2	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00008918	Isoform Beta of LIM domain and actin-binding protein 1	S 373	20% (0.00)	0.2000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010368	Kinesin-like protein KIF2	S 565	20% (0.00)	0.2000	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00011857	Chromatin assembly factor 1 subunit B	S 428	20% (0.00)	0.2000	3	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00011891	protein kinase, AMP-activated, alpha 1 catalytic subunit isoform 1	S 356	20% (0.00)	0.2000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00013444	Zinc finger protein 40	S 536	20% (0.00)	0.2000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00013905	5'-AMP-activated protein kinase subunit beta-2	S 184	20% (0.00)	0.2000	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00013933	Isoform DPI of Desmoplakin	S 2551	20% (0.00)	0.2000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00017763	Nucleosome assembly protein 1-like 4	S 54	20% (0.00)	0.2000	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00021076	Isoform Long of Plakophilin-4	S 336	20% (0.00)	0.2000	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00024773	Isoform 1 of FERM, RhoGEF and pleckstrin domain-containing protein 1	S 871	20% (0.00)	0.2000	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00026089	Splicing factor 3B subunit 1	S 349	20% (0.00)	0.2000	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00030131	thymopoietin isoform beta	S 180	20% (0.00)	0.2000	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00102107	Isoform 1 of Histone-lysine N-methyltransferase, H3 lysine-36 and H4 lysine-20 specific	S 1510	20% (0.00)	0.2000	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00149098	Isoform 2 of Transcription initiation factor TFIID subunit 1	S 545	20% (0.00)	0.2000	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00164951	P40	S 26	20% (0.00)	0.2000	2	4	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0
IPI00178203	Some homology with holliday junction DNA helicase RUVB like	S 261	20% (0.00)	0.2000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00181893	Isoform 4 of Phosphorylase b kinase beta regulatory chain	S 694	20% (0.00)	0.2000	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216049	Isoform 1 of Heterogeneous nuclear ribonucleoprotein K	S 379	20% (0.00)	0.2000	3	7	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	1	0	1	0	0	1	0	0	0	0	0	1	1	1	0	0
IPI00217686	Putative rRNA methyltransferase 3	S 598	20% (0.00)	0.2000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218571	phosphorylase kinase, beta isoform a	S 701	20% (0.00)	0.2000	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00234154	similar to RIKEN cDNA 5730467H21	S 742	20% (0.00)	0.2000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00288941	Nuclear receptor coactivator 5	S 377	20% (0.00)	0.2000	2	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00288941	Nuclear receptor coactivator 5	S 378	20% (0.00)	0.2000	2	4	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0
IPI00291916	pleckstrin homology domain interacting protein	S 1525	20% (0.00)	0.2000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00298454	40 kDa protein	S 26	20% (0.00)	0.2000	2	4	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0
IPI00298870	Transmembrane protein 1	S 709	20% (0.00)	0.2000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00299024	Brain acid soluble protein 1	S 193	20% (0.00)	0.2000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00301421	Isoform 1 of Nuclear-interacting partner of ALK	S 394	20% (0.00)	0.2000	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00329236	Protein kinase C delta type	S 302	20% (0.00)	0.2000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
IPI00333420	Serine/threonine-protein kinase SRPK2	S 497	20% (0.00)	0.2000	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00334400	Isoform Short of Plakophilin-4	S 336	20% (0.00)	0.2000	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00339382	Isoform 2 of Nuclear-interacting partner of ALK	S 373	20% (0.00)	0.2000	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00383219	Isoform 2 of AF4/FMR2 family member 4	S 840	20% (0.00)	0.2000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00384562	protein kinase C, delta	S 302	20% (0.00)	0.2000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
IPI00396412	SFRS protein kinase 2 isoform a	S 508	20% (0.00)	0.2000	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00397590	Isoform 2 of Serine/threonine-protein kinase WNK1	S 1765	20% (0.00)	0.2000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00397700	Isoform 2 of PHD finger protein 6	S 155	20% (1.74)	0.2000	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00410287	protein kinase, AMP-activated, alpha 1 catalytic subunit isoform 2	S 371	20% (0.00)	0.2000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413942	Isoform 1 of GRIP1-associated protein 1	S 691	20% (0.00)	0.2000	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00414657	CTF18, chromosome transmission fidelity factor 18 homolog	S 64	20% (0.00)	0.2000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00442150	CDNA FLJ16420 fis, clone BRACE3003053. (Fragment)	S 130	20% (0.00)	0.2000	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00470779	Alpha-taxilin	S 19	20% (0.00)	0.2000	2	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00514085	Isoform 2 of Phosphorylase b kinase beta regulatory chain	S 694	20% (0.00)	0.2000	+ 1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514327	Isoform 3 of Phosphorylase b kinase beta regulatory chain	S 700	20% (0.00)	0.2000	+ 1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00552149	PHD finger protein 6	S 155	20% (1.74)	0.2000	+ 1	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00554560	Hypothetical protein 101F10.1	S 132	20% (0.00)	0.2000	+ 2	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00554788	Keratin, type I cytoskeletal 18	S 53	20% (0.00)	0.2000	+ 1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00607628	Isoform 4 of GRIP1-associated protein 1	S 660	20% (0.00)	0.2000	+ 1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00643352	nucleoporin 214kDa	S 766	20% (0.00)	0.2000	+ 1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00644786	GRIP1 associated protein 1	S 647	20% (0.00)	0.2000	+ 1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00645814	KIAA1187 protein	S 432	20% (0.00)	0.2000	0	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00654605	Hypothetical protein RPRC1	S 469	20% (0.00)	0.2000	0	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00737644	P40	S 26	20% (0.00)	0.2000	+ 2	+ 4	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	1	0	0	0
IPI00738062	P40	S 26	20% (0.00)	0.2000	+ 2	+ 4	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	1	0	0	0
IPI00746455	Isoform 2 of FERM, RhoGEF and pleckstrin domain-containing protein 1	S 902	20% (0.00)	0.2000	+ 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746731	Conserved hypothetical protein	S 158	20% (0.00)	0.2000	+ 2	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00747119	plakophilin 4 isoform b	S 336	20% (0.00)	0.2000	+ 1	+ 1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00747266	226 kDa protein	S 1765	20% (0.00)	0.2000	0	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00748509	251 kDa protein	S 2011	20% (0.00)	0.2000	0	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 144	20% (0.00)	0.2000	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1397	20% (0.00)	0.2000	+ 1	+ 2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1398	20% (0.00)	0.2000	+ 1	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00418991	CDNA FLJ44035 fis, clone TESTI4028612	S 972	20% (4.02)	0.2000	0	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00742090	QSER1 protein (Fragment)	S 1211	20% (4.02)	0.2000	0	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00444788	CDNA FLJ44925 fis, clone BRAMY3014613, highly similar to Homo sapiens SH3-domain binding protein	S 111	20% (3.08)	0.1993	+ 2	+ 3	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00445123	CDNA FLJ44592 fis, clone BLADE2002310, highly similar to Homo sapiens SH3-domain binding protein 1	S 89	20% (3.08)	0.1993	+ 2	+ 3	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00456744	Isoform 1 of SH3 domain-binding protein 1	S 175	20% (3.08)	0.1993	+ 2	+ 3	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00743804	67 kDa protein	S 95	20% (3.08)	0.1993	+ 2	+ 3	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00749302	Hypothetical protein DKFZp686L20116	S 23	20% (1.52)	0.1991	+ 1	+ 1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00398170	CDNA FLJ43547 fis, clone PROST2016462	S 115	20% (3.86)	0.1987	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00645265	ARHGAP27 protein (Fragment)	S 160	20% (3.86)	0.1987	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00719818	nucleolar protein 5A	S 537	20% (0.00)	0.1985	+ 1	+ 1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00014893	Isoform 2 of Nuclear distribution protein nudE homolog 1	S 306	20% (7.76)	0.1973	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00419979	p21-activated kinase 2	S 78	20% (0.00)	0.1973	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00256861	Isoform 2 of Microtubule-actin crosslinking factor 1, isoforms 1/2/3/5	S 1862	20% (0.00)	0.1953	+ 2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00432363	Microtubule-actin crosslinking factor 1, isoform 4	S 2364	20% (0.00)	0.1953	+ 2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00478739	microfilament and actin filament cross-linker protein isoform b	S 2364	20% (0.00)	0.1953	+ 2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00513991	620 kDa protein	S 1862	20% (0.00)	0.1953	+ 2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514468	670 kDa protein	S 2364	20% (0.00)	0.1953	+ 2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00550385	Isoform 1 of Microtubule-actin crosslinking factor 1, isoforms 1/2/3/5	S 1827	20% (0.00)	0.1953	+ 2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00152658	Serine/threonine-protein kinase Nek7	S 187	19% (2.61)	0.1947	+ 2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00292059	Nuclear pore complex protein Nup153	S 172	19% (2.61)	0.1947	+ 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00480157	154 kDa protein	S 172	19% (2.61)	0.1947	+ 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514528	nucleoporin 153kDa	S 172	19% (2.61)	0.1947	+ 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00396627	Isoform 1 of Zinc phosphodiesterase ELAC protein 2	S 213	19% (0.00)	0.1946	0	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00011118	Ribonucleoside-diphosphate reductase M2 subunit	S 63	19% (0.00)	0.1942	+ 1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00221106	splicing factor 3B subunit 2	S 344	19% (0.00)	0.1942	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00554648	Keratin, type II cytoskeletal 8	S 42	19% (8.14)	0.1936	+ 1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00004344	Isoform 1 of AF4/FMR2 family member 4	S 491	19% (2.99)	0.1933	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00383219	Isoform 2 of AF4/FMR2 family member 4	S 491	19% (2.99)	0.1933	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00004388	Tyrosine-protein phosphatase non-receptor type 21	S 797	19% (3.98)	0.1928	+ 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00658152	tensin-like SH2 domain containing 1	S 379	19% (4.67)	0.1920	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00759836	Tensin	S 481	19% (4.67)	0.1920	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218136	137 kDa protein	S 135	19% (0.00)	0.1920	+ 2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00515042	cingulin	S 135	19% (0.00)	0.1920	+ 2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219726	Isoform 2AC of Catenin delta-1	S 266	19% (0.00)	0.1913	+ 2	+ 1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219728	Isoform 2A of Catenin delta-1	S 266	19% (0.00)	0.1913	+ 2	+ 1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00021076	Isoform Long of Plakophilin-4	S 403	19% (0.00)	0.1909	0	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00334400	Isoform Short of Plakophilin-4	S 403	19% (0.00)	0.1909	0	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00747119	plakophilin 4 isoform b	S 403	19% (0.00)	0.1909	0	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00306825	Isoform 1 of Tumor protein D54	S 192	19% (2.60)	0.1908	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00399265	tumor protein D52-like 2 isoform a	S 215	19% (2.60)	0.1908	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00399267	tumor protein D52-like 2 isoform c	S 206	19% (2.60)	0.1908	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00006213	Pericentriol material 1	S 68	19% (11.06)	0.1908	+ 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219301	Myristoylated alanine-rich C-kinase substrate	S 133	19% (1.94)	0.1904	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00003842	Isoform 1 of Microtubule-associated protein 2	S 653	19% (2.99)	0.1898	+ 1	+ 1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00010728	203 kDa protein	S 653	19% (2.99)	0.1898	+ 1	+ 1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00472094	Isoform 3 of Microtubule-associated protein 2	S 649	19% (2.99)	0.1898	+ 1	+ 1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00376229	Isoform 1 of Phosphofurin acidic cluster sorting protein 1	S 379	19% (2.44)	0.1883	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456262	Isoform 2 of Phosphofurin acidic cluster sorting protein 1	S 379	19% (2.44)	0.1883	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00513791	dedicator of cytokinesis 7	S 898	19% (0.95)	0.1873	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00302594	hypothetical protein LOC91748	S 636	19% (2.11)	0.1867	3	4	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00166487	Isoform 3 of Protein KIAA0310	S 1258	19% (0.00)	0.1862	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219314	Isoform 2 of Protein KIAA0310	S 1258	19% (0.00)	0.1862	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641384	Isoform 1 of Protein KIAA0310	S 1258	19% (0.00)	0.1862	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00144293	Isoform 1 of YTH domain-containing protein 1	S 419	19% (0.10)	0.1861	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00142538	Isoform 1 of Probable helicase senataxin	S 910	19% (0.00)	0.1856	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
IPI00719643	Isoform 3 of Probable helicase senataxin	S 910	19% (0.00)	0.1856	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
IPI00005809	Serum deprivation-response protein	S 364	19% (3.29)	0.1854	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00376229	Isoform 1 of Phosphofurin acidic cluster sorting protein 1	S 529	19% (0.00)	0.1850	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00456262	Isoform 2 of Phosphofurin acidic cluster sorting protein 1	S 529	19% (0.00)	0.1850	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00032355	Pumilio homolog 1	S 245	18% (2.09)	0.1848	7	6	0	1	0	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00551014	Isoform 1 of Pumilio homolog 1	S 209	18% (2.09)	0.1848	7	6	0	1	0	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00646054	Pumilio homolog 1	S 209	18% (2.09)	0.1848	7	6	0	1	0	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00013269	Isoform 1 of Protein C6orf106	S 272	18% (5.81)	0.1845	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00332642	Isoform 2 of Protein C6orf106	S 206	18% (5.81)	0.1845	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00642125	OTTHUMP00000016236	S 198	18% (5.81)	0.1845	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00165261	Sec1 family domain-containing protein 1	S 297	18% (2.89)	0.1842	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00186711	plectin 1 isoform 6	S 4622	18% (3.53)	0.1831	2	2	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00398002	plectin 1 isoform 1	S 4512	18% (3.53)	0.1831	2	2	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00398779	plectin 1 isoform 11	S 4485	18% (3.53)	0.1831	2	2	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1303	18% (2.96)	0.1830	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00154915	Isoform 1 of Partitioning-defective 3 homolog	S 695	18% (0.62)	0.1829	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00179063	Isoform 4 of Partitioning-defective 3 homolog	S 695	18% (0.62)	0.1829	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00301595	Isoform 2 of Partitioning-defective 3 homolog	S 695	18% (0.62)	0.1829	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00301597	Par-3 partitioning defective 3 homolog	S 638	18% (0.62)	0.1829	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00304742	Serine/threonine-protein kinase 10	S 455	18% (2.04)	0.1825	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413734	Isoform 6 of Transcriptional regulator ATRX	S 808	18% (0.00)	0.1813	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00418185	Hypothetical protein FLJ20097	S 283	18% (0.00)	0.1804	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00553067	hypothetical protein LOC55610 isoform a	S 552	18% (0.00)	0.1804	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00183002	Isoform 1 of Protein phosphatase 1 regulatory subunit 12A	S 304	18% (0.00)	0.1799	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00397728	Isoform 2 of Protein phosphatase 1 regulatory subunit 12A	S 304	18% (0.00)	0.1799	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00397730	Isoform 4 of Protein phosphatase 1 regulatory subunit 12A	S 304	18% (0.00)	0.1799	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00413191	Isoform 3 of Protein phosphatase 1 regulatory subunit 12A	S 304	18% (0.00)	0.1799	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00099463	Sphingosine-1-phosphate lyase 1	S 542	18% (3.44)	0.1798	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00023283	Isoform 2 of Titin	S 16555	18% (0.00)	0.1796	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00007334	Isoform 1 of Apoptotic chromatin condensation inducer in the nucleus	S 206	18% (4.73)	0.1792	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00004344	Isoform 1 of AF4/FMR2 family member 4	S 490	18% (1.64)	0.1790	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00383219	Isoform 2 of AF4/FMR2 family member 4	S 490	18% (1.64)	0.1790	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00759546	Isoform 5 of Afadin	S 1317	18% (3.55)	0.1782	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00470582	Isoform 1 of Protein C10orf118	S 735	18% (5.31)	0.1776	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00639861	Protein	S 364	18% (5.31)	0.1776	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00292753	GTPase activating protein and VPS9 domains 1	S 761	18% (0.00)	0.1775	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00742770	KIAA1521 protein	S 600	18% (0.00)	0.1775	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00386211	family with sequence similarity 44, member A	S 1281	18% (2.61)	0.1760	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00384202	Isoform 1 of Probable JmjC domain-containing histone demethylation protein 2C	S 2007	18% (0.00)	0.1759	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00243221	Nardilysin	S 236	18% (0.00)	0.1754	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00747052	Isoform 2 of Nardilysin precursor	S 235	18% (0.00)	0.1754	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00297982	Eukaryotic translation initiation factor 2 subunit 3	S 197	18% (-0.14)	0.1751	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00045914	Msx2-interacting protein	S 742	17% (7.38)	0.1750	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00554715	fragile X mental retardation-related protein 1 isoform b	S 485	17% (3.04)	0.1749	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00017763	Nucleosome assembly protein 1-like 4	S 53	17% (5.31)	0.1742	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00304692	Heterogeneous nuclear ribonucleoprotein G	S 280	17% (0.00)	0.1742	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00306933	Isoform Short of Myosin-9B	S 717	17% (0.00)	0.1736	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00336047	Isoform Long of Myosin-9B	S 717	17% (0.00)	0.1736	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00384689	Hypothetical protein KIAA0251	S 737	17% (2.01)	0.1724	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
IPI00215948	Isoform 1 of Alpha-1 catenin	S 44	17% (0.99)	0.1711	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00383396	Isoform 1 of Autophagy-related protein 9A	S 656	17% (0.83)	0.1706	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00216952	Isoform C of Lamin-A/C	S 404	17% (0.00)	0.1701	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00215884	splicing factor, arginine/serine-rich 1	S 201	17% (0.00)	0.1699	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00253281	Isoform 2 of Epidermal growth factor receptor kinase substrate 8-like protein 1	S 425	17% (5.14)	0.1698	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00301250	Isoform 1 of Epidermal growth factor receptor kinase substrate 8-like protein 1	S 552	17% (5.14)	0.1698	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00419322	hepatoma-derived growth factor-related protein 2 isoform 1	S 397	17% (0.00)	0.1688	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00645387	hepatoma-derived growth factor-related protein 2 isoform 2	S 397	17% (0.00)	0.1688	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00002549	Isoform 1 of Anaphase-promoting complex subunit 2	S 474	17% (0.00)	0.1687	* 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00375832	Isoform 2 of Anaphase-promoting complex subunit 2	S 471	17% (0.00)	0.1687	* 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00739363	PREDICTED: similar to Anaphase promoting complex subunit 2	S 248	17% (0.00)	0.1687	* 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 1474	17% (0.00)	0.1682	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 1479	17% (0.00)	0.1682	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00171390	CDNA FLJ34719 fis, clone MESAN2005689, weakly similar to SPLICING FACTOR, ARGININE/SERINE-RICH	S 182	17% (3.93)	0.1672	* 2	* 2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
IPI00002186	Brefeldin A-inhibited guanine nucleotide-exchange protein 2	S 279	17% (0.00)	0.1667	* 2	* 4	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
IPI00008200	Isoform 1 of YEATS domain-containing protein 2	S 516	17% (0.00)	0.1667	* 2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00008917	Isoform 1 of Doublecortin domain-containing protein 2	S 269	17% (0.00)	0.1667	* 1	* 3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00008918	Isoform Beta of LIM domain and actin-binding protein 1	S 708	17% (0.00)	0.1667	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00014893	Isoform 2 of Nuclear distribution protein nudE homolog 1	S 211	17% (0.00)	0.1667	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00015973	Band 4.1-like protein 2	S 38	17% (0.00)	0.1667	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00016670	FLJ20625 protein	S 113	17% (0.00)	0.1667	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00020513	Zyxin	S 202	17% (0.00)	0.1667	* 1	* 2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00026337	Isoform 1 of Ran-binding protein 3	S 126	17% (0.00)	0.1667	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00032374	Isoform 2 of Protein KIAA0179	S 435	17% (0.00)	0.1667	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00149098	Isoform 2 of Transcription initiation factor TFIID subunit 1	S 543	17% (0.00)	0.1667	* 2	* 1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00154915	Isoform 1 of Partitioning-defective 3 homolog	S 889	17% (0.00)	0.1667	0	# 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00163866	PREDICTED: MAX dimerization protein 5 isoform 1	S 276	17% (0.00)	0.1667	* 2	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00179063	Isoform 4 of Partitioning-defective 3 homolog	S 889	17% (0.00)	0.1667	0	# 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00179109	Isoform 1 of NAD-dependent deacetylase sirtuin-2	S 364	17% (0.00)	0.1667	* 1	* 1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00183699	Isoform 2 of HMG box transcription factor BBX	S 479	17% (0.00)	0.1667	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216592	Isoform C1 of Heterogeneous nuclear ribonucleoproteins C1/C2	S 226	17% (0.00)	0.1667	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00290952	Isoform 1 of Protein KIAA0179	S 453	17% (0.00)	0.1667	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00297254	Signal-induced proliferation-associated 1-like protein 3	S 206	17% (0.00)	0.1667	* 1	* 1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00300222	Isoform 1 of HMG box transcription factor BBX	S 481	17% (0.00)	0.1667	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00301595	Isoform 2 of Partitioning-defective 3 homolog	S 886	17% (0.00)	0.1667	0	# 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00301597	Par-3 partitioning defective 3 homolog	S 829	17% (0.00)	0.1667	0	# 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00382551	Isoform 2 of NAD-dependent deacetylase sirtuin-2	S 327	17% (0.00)	0.1667	* 1	* 1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00396557	ZYX protein	S 152	17% (0.00)	0.1667	* 1	* 2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00413734	Isoform 6 of Transcriptional regulator ATRX	S 822	17% (0.00)	0.1667	* 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00414481	Isoform 1 of General transcription factor 3C polypeptide 1	S 1074	17% (-6.48)	0.1667	* 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00414482	Isoform 2 of General transcription factor 3C polypeptide 1	S 1094	17% (-6.48)	0.1667	* 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00427522	Isoform 1 of Peroxisome proliferator-activated receptor-binding protein	S 1156	17% (0.00)	0.1667	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00442504	Hypothetical protein FLJ27117	S 21	17% (0.00)	0.1667	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456681	Isoform 1 of Transcription elongation factor SPT6	S 1528	17% (0.00)	0.1667	* 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456728	Isoform 2 of Ran-binding protein 3	S 126	17% (0.00)	0.1667	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456729	Isoform 3 of Ran-binding protein 3	S 58	17% (0.00)	0.1667	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00472047	Isoform 3 of NAD-dependent deacetylase sirtuin-2	S 344	17% (0.00)	0.1667	* 1	* 1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00552897	Isoform 1 of Mediator of DNA damage checkpoint protein 1	S 402	17% (0.00)	0.1667	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00640953	43 kDa protein	S 362	17% (0.00)	0.1667	* 1	* 1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641106	227 kDa protein	S 402	17% (0.00)	0.1667	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00643990	40 kDa protein	S 335	17% (0.00)	0.1667	* 1	* 1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00656088	Isoform 1 of Ras-associated and pleckstrin homology domains-containing protein 1	S 1208	17% (0.00)	0.1667	0	* 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00657687	Isoform 1 of Actin-binding protein anillin	S 664	17% (0.00)	0.1667	0	* 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00737498	PREDICTED: similar to MAX-interacting protein isoform 5	S 276	17% (0.00)	0.1667	* 2	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00743594	124 kDa protein	S 665	17% (0.00)	0.1667	0	* 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00745006	102 kDa protein	S 481	17% (0.00)	0.1667	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00026256	Filaggrin	S 1613	17% (0.00)	0.1657	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00009032	Lupus La protein	S 92	17% (0.00)	0.1656	* 2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00444371	WD repeat domain 44 protein	S 397	16% (0.21)	0.1645	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00552345	WD repeat domain 44	S 397	16% (0.21)	0.1645	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00747740	Hypothetical protein DKFZp686F0572	S 399	16% (0.21)	0.1645	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00247674	PREDICTED: hypothetical protein XP_292820	S 363	16% (0.00)	0.1643	* 1	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00004413	Tumor necrosis factor receptor superfamily member 21 precursor	S 449	16% (2.04)	0.1636	* 1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00292537	nuclear factor kappa-B, subunit 1	S 893	16% (0.00)	0.1633	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00549766	Isoform 1 of Protein FAM40A	S 63	16% (0.00)	0.1633	0	* 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00414481	Isoform 1 of General transcription factor 3C polypeptide 1	S 1855	16% (0.00)	0.1627	* 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00414482	Isoform 2 of General transcription factor 3C polypeptide 1	S 1875	16% (0.00)	0.1627	* 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005648	Scaffold attachment factor B2	S 233	16% (5.14)	0.1618	* 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00646058	103 kDa protein	S 234	16% (5.14)	0.1618	* 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00083708	HBxAg transactivated protein 2	S 926	16% (-0.28)	0.1617	# 4	* 2	0	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00739117	HBxAg transactivated protein 2	S 924	16% (-0.28)	0.1617	# 4	* 2	0	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216952	Isoform C of Lamin-A/C	S 546	16% (0.00)	0.1617	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00738216	PREDICTED: hypothetical protein LOC23379	S 926	16% (0.00)	0.1607	* 1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00026256	Filaggrin	S 503	16% (0.00)	0.1605	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00221106	splicing factor 3B subunit 2	S 357	16% (1.61)	0.1597	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00183002	Isoform 1 of Protein phosphatase 1 regulatory subunit 12A	S 409	16% (4.05)	0.1594	0	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00397728	Isoform 2 of Protein phosphatase 1 regulatory subunit 12A	S 409	16% (4.05)	0.1594	0	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00397730	Isoform 4 of Protein phosphatase 1 regulatory subunit 12A	S 409	16% (4.05)	0.1594	0	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00413191	Isoform 3 of Protein phosphatase 1 regulatory subunit 12A	S 409	16% (4.05)	0.1594	0	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00157757	Isoform 1 of NEDD9-interacting protein with calponin homology and LIM domains	S 617	16% (1.79)	0.1591	+ 2	+ 3	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00441963	FLJ00407 protein (Fragment)	S 141	16% (1.79)	0.1591	+ 2	+ 3	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00479343	118 kDa protein	S 617	16% (1.79)	0.1591	+ 2	+ 3	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00647681	Isoform 2 of NEDD9-interacting protein with calponin homology and LIM domains	S 531	16% (1.79)	0.1591	+ 2	+ 3	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00220317	DNA polymerase alpha catalytic subunit	S 190	16% (0.28)	0.1590	+ 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00647655	166 kDa protein	S 196	16% (0.28)	0.1590	+ 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00290410	Acidic 82 kDa protein mRNA	S 88	16% (2.99)	0.1589	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00032358	Nuclear envelope pore membrane protein POM 121	S 368	16% (-3.12)	0.1583	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00555819	Similar to Nuclear envelope pore membrane protein POM 121	S 368	16% (-3.12)	0.1583	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00032358	Nuclear envelope pore membrane protein POM 121	S 373	16% (0.00)	0.1583	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00555819	Similar to Nuclear envelope pore membrane protein POM 121	S 373	16% (0.00)	0.1583	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00216654	Isoform Beta of Nucleolar phosphoprotein p130	S 275	16% (6.39)	0.1579	+ 1	+ 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00292387	Isoform Alpha of Nucleolar phosphoprotein p130	S 265	16% (6.39)	0.1579	+ 1	+ 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00386897	CDNA FLJ12401 fis, clone MAMMA1002796	S 49	16% (0.00)	0.1575	+ 2	+ 2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0
IPI00440241	PREDICTED: hypothetical protein LOC79649 isoform 3	S 182	16% (0.00)	0.1575	+ 2	+ 2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0
IPI00642481	Novel protein	S 183	16% (0.00)	0.1575	+ 2	+ 2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0
IPI00013485	40S ribosomal protein S2	S 264	16% (0.00)	0.1573	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00295022	NK-tumor recognition protein	S 1313	16% (1.54)	0.1563	+ 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00004233	Isoform Long of Antigen KI-67	S 2629	16% (1.68)	0.1563	+ 1	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00301293	antigen identified by monoclonal antibody Ki-67	S 2629	16% (1.68)	0.1563	+ 1	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00337530	Isoform 1 of RalBP1-associated Eps domain-containing protein 1	S 122	16% (0.00)	0.1562	+ 1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00337532	Isoform 3 of RalBP1-associated Eps domain-containing protein 1	S 122	16% (0.00)	0.1562	+ 1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00298696	Treacle protein	S 1037	15% (10.19)	0.1546	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00747047	Treacle major isoform	S 1114	15% (10.19)	0.1546	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00442167	CDNA FLJ16400 fis, clone TUTER2000057, moderately similar to Mus musculus AE-1 binding protein AEB	S 234	15% (2.58)	0.1543	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00444371	WD repeat domain 44 protein	S 342	15% (0.00)	0.1542	+ 1	+ 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00448767	Growth factor receptor-bound protein 7	S 366	15% (0.00)	0.1542	+ 2	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00552345	WD repeat domain 44	S 342	15% (0.00)	0.1542	+ 1	+ 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00747740	Hypothetical protein DKFZp686F0572	S 344	15% (0.00)	0.1542	+ 1	+ 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00036742	hypothetical protein LOC25962 isoform 1	S 1579	15% (0.00)	0.1531	+ 1	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00293845	275 kDa protein	S 2198	15% (0.00)	0.1515	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00375454	Isoform 2 of Telomere-associated protein RIF1	S 2198	15% (0.00)	0.1515	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00477805	Isoform 1 of Telomere-associated protein RIF1	S 2196	15% (0.00)	0.1515	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413734	Isoform 6 of Transcriptional regulator ATRX	S 1927	15% (0.00)	0.1515	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00328798	DLNB11 protein	S 934	15% (0.00)	0.1501	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00023287	Isoform 4 of E3 ubiquitin-protein ligase NEDD4-like protein	S 366	15% (0.00)	0.1496	0	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00163321	Isoform 2 of E3 ubiquitin-protein ligase NEDD4-like protein	S 423	15% (0.00)	0.1496	0	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00166830	Isoform 5 of E3 ubiquitin-protein ligase NEDD4-like protein	S 467	15% (0.00)	0.1496	0	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00304945	Isoform 8 of E3 ubiquitin-protein ligase NEDD4-like protein	S 507	15% (0.00)	0.1496	0	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00640924	Isoform 1 of E3 ubiquitin-protein ligase NEDD4-like protein	S 487	15% (0.00)	0.1496	0	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00643856	Isoform 7 of E3 ubiquitin-protein ligase NEDD4-like protein	S 479	15% (0.00)	0.1496	0	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00644256	Isoform 6 of E3 ubiquitin-protein ligase NEDD4-like protein	S 459	15% (0.00)	0.1496	0	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00149098	Isoform 2 of Transcription initiation factor TFIID subunit 1	S 550	15% (0.21)	0.1488	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00018370	Isoform 2 of Supervillin	S 542	15% (0.00)	0.1488	0	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00644209	13 kDa protein	S 26	15% (1.05)	0.1481	+ 2	+ 1	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00007208	Probable ATP-dependent RNA helicase DDX41	S 66	15% (0.00)	0.1480	+ 1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00013215	Origin recognition complex subunit 1	S 196	15% (0.00)	0.1479	+ 1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 2453	15% (3.65)	0.1473	0	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00107745	Isoform 1 of Cisplatin resistance-associated overexpressed protein	S 425	15% (1.70)	0.1470	0	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0
IPI00295004	Isoform 1 of Alsin	S 1464	14% (0.36)	0.1445	0	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00030466	PREDICTED: hypothetical protein LOC26115 isoform 1	S 1366	14% (0.00)	0.1445	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00005146	Hypothetical protein A-362G6.1	S 871	14% (0.00)	0.1445	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00384861	Isoform 1 of ARF GTPase-activating protein GIT1	S 596	14% (0.00)	0.1444	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00419979	p21-activated kinase 2	S 75	14% (0.00)	0.1444	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00002804	Serine/threonine-protein kinase N2	S 582	14% (0.00)	0.1442	I 8	I 9	1	1	0	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	0	1	1	0	0	0	1	1	0	0	1	1	1	1	0	0	1
IPI00514221	112 kDa protein	S 582	14% (0.00)	0.1442	I 8	I 9	1	1	0	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	0	1	1	0	0	0	1	1	0	0	1	1	1	1	0	0	1
IPI00745366	PKN2 protein	S 121	14% (0.00)	0.1442	I 8	I 9	1	1	0	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	0	1	1	0	0	0	1	1	0	0	1	1	1	1	0	0	1
IPI00012578	Importin alpha-4 subunit	S 72	14% (0.00)	0.1441	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005688	Zinc finger protein 185	S 18	14% (0.00)	0.1429	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00005904	Probable ATP-dependent RNA helicase DDX20	S 677	14% (0.00)	0.1429	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005904	Probable ATP-dependent RNA helicase DDX20	S 678	14% (0.00)	0.1429	+ 1	+ 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00009286	Isoform 1 of Zinc finger protein HRX	S 1685	14% (0.00)	0.1429	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00011593	Fos-related antigen 2	S 19	14% (0.00)	0.1429	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00029019	Ubiquitin-associated protein 2-like	S 610	14% (0.00)	0.1429	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00152011	PTPL1-associated RhoGAP 1	S 930	14% (0.00)	0.1429	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00166487	Isoform 3 of Protein KIAA0310	S 390	14% (0.00)	0.1429	3	1	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00180154	Isoform 1 of Ataxin-2	S 668	14% (0.00)	0.1429	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00187011	Zinc finger CCCH-type domain-containing protein C19orf7	S 159	14% (0.55)	0.1429	10	9	1	1	2	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0	0	1	1	0	0	0	1	1	1	0	0	0	0	3	1	0	0	0
IPI00216348	Isoform 2C of Cytoplasmic dynein 1 intermediate chain 2	S 88	14% (0.00)	0.1429	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
IPI00216689	Poly(rC)-binding protein 2	S 271	14% (0.00)	0.1429	1	5	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	2	0	0
IPI00218753	Isoform 3 of DNA topoisomerase 2-alpha	S 1428	14% (0.00)	0.1429	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00218754	Isoform 4 of DNA topoisomerase 2-alpha	S 1473	14% (0.00)	0.1429	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00219314	Isoform 2 of Protein KIAA0310	S 390	14% (0.00)	0.1429	3	1	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00291916	pleckstrin homology domain interacting protein	S 1559	14% (0.00)	0.1429	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00291916	pleckstrin homology domain interacting protein	S 1560	14% (0.00)	0.1429	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00386211	family with sequence similarity 44, member A	S 2905	14% (-5.57)	0.1429	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00398002	plectin 1 isoform 1	S 20	14% (0.00)	0.1429	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00412535	115 kDa protein	S 610	14% (0.00)	0.1429	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00414101	Isoform 2 of DNA topoisomerase 2-alpha	S 1419	14% (0.00)	0.1429	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00427522	Isoform 1 of Peroxisome proliferator-activated receptor-binding protein	S 771	14% (0.00)	0.1429	4	3	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00449923	Isoform 1 of Retinoic acid-induced protein 1	S 1126	14% (0.00)	0.1429	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00449924	Isoform 2 of Retinoic acid-induced protein 1	S 1079	14% (0.00)	0.1429	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00455359	Isoform 2 of Ataxin-2	S 666	14% (0.00)	0.1429	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00455363	Isoform 4 of Ataxin-2	S 666	14% (0.00)	0.1429	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00478232	Isoform 1 of DNA topoisomerase 2-alpha	S 1429	14% (0.00)	0.1429	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00514856	Ubiquitin associated protein 2-like	S 608	14% (0.00)	0.1429	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641384	Isoform 1 of Protein KIAA0310	S 390	14% (0.00)	0.1429	3	1	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00647688	198 kDa protein	S 1077	14% (0.00)	0.1429	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00719520	ATXN2 protein (Fragment)	S 456	14% (0.00)	0.1429	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1657	14% (0.00)	0.1429	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00749302	Hypothetical protein DKFZp686L20116	S 24	14% (0.00)	0.1429	1	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0
IPI00749302	Hypothetical protein DKFZp686L20116	S 25	14% (0.00)	0.1429	4	4	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 862	14% (-5.47)	0.1402	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 867	14% (-5.47)	0.1402	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00029484	Isoform 1 of Zinc finger MYM-type protein 3	S 777	14% (4.51)	0.1399	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00219027	Isoform 2 of Zinc finger MYM-type protein 3	S 777	14% (4.51)	0.1399	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00641109	153 kDa protein	S 779	14% (4.51)	0.1399	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00642326	142 kDa protein	S 779	14% (4.51)	0.1399	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00644209	13 kDa protein	S 33	14% (2.11)	0.1398	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00032936	ETS domain-containing transcription factor ERF	S 531	14% (0.00)	0.1391	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00045051	Transcriptional activator protein Pur-beta	S 99	14% (0.00)	0.1391	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00289082	Tyrosine-protein phosphatase non-receptor type 12	S 324	14% (0.00)	0.1391	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00298738	DNA-directed RNA polymerase, mitochondrial precursor	S 1145	14% (1.62)	0.1391	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00292059	Nuclear pore complex protein Nup153	S 174	14% (0.99)	0.1388	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00480157	154 kDa protein	S 174	14% (0.99)	0.1388	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00514528	nucleoporin 153kDa	S 174	14% (0.99)	0.1388	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00186711	plectin 1 isoform 6	S 4385	14% (0.00)	0.1388	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00398002	plectin 1 isoform 1	S 4275	14% (0.00)	0.1388	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00398779	plectin 1 isoform 11	S 4248	14% (0.00)	0.1388	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00102059	Kinase-like protein	S 558	14% (1.82)	0.1384	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00020524	Putative chloride channel protein 7	S 60	14% (0.00)	0.1381	2	3	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00745767	Chloride channel protein 7	S 60	14% (0.00)	0.1381	2	3	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00216540	Isoform 4 of Protein kinase C-binding protein 1	S 274	14% (0.00)	0.1381	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00418316	RACK7 isoform e	S 670	14% (0.00)	0.1381	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00640598	protein kinase C binding protein 1 isoform a	S 670	14% (0.00)	0.1381	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00718938	Isoform 6 of Protein kinase C-binding protein 1	S 505	14% (0.00)	0.1381	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00719682	Isoform 7 of Protein kinase C-binding protein 1	S 669	14% (0.00)	0.1381	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00740207	RACK7 isoform j	S 645	14% (0.00)	0.1381	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00741204	RACK7 isoform f	S 645	14% (0.00)	0.1381	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748579	RACK7 isoform d	S 645	14% (0.00)	0.1381	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00397380	Isoform 2 of Epsin-2	S 172	14% (0.00)	0.1378	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00397381	epsin 2 isoform a	S 172	14% (0.00)	0.1378	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00026625	Isoform 1 of Nuclear pore complex protein Nup155	S 1166	14% (0.00)	0.1376	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00376609	Isoform 2 of Nuclear pore complex protein Nup155	S 1107	14% (0.00)	0.1376	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00410079	Cerebral protein-10	S 44	14% (0.00)	0.1359	6	4	0	0	1	0	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0
IPI00302592	Filamin A, alpha	S 1084	13% (0.00)	0.1342	4	4	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00333541	Filamin-A	S 1083	13% (0.00)	0.1342	4	4	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No. SNU 216	Total No. SNU 216LR	SNU216 1_01	SNU216 2_01	SNU216 3_01	SNU216 4_01	SNU216 5_01	SNU216 6_01	SNU216 1_02	SNU216 2_02	SNU216 3_02	SNU216 4_02	SNU216 5_02	SNU216 6_02	SNU216 1_03	SNU216 2_03	SNU216 3_03	SNU216 4_03	SNU216 5_03	SNU216 6_03	SNU216-LR 1_01	SNU216-LR 2_01	SNU216-LR 3_01	SNU216-LR 4_01	SNU216-LR 5_01	SNU216-LR 6_01	SNU216-LR 1_02	SNU216-LR 2_02	SNU216-LR 3_02	SNU216-LR 4_02	SNU216-LR 5_02	SNU216-LR 6_02	SNU216-LR 1_03	SNU216-LR 2_03	SNU216-LR 3_03	SNU216-LR 4_03	SNU216-LR 5_03	SNU216-LR 6_03
IPI00008283	Zinc finger protein 106 homolog	S 400	13% (0.73)	0.1338	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00294653	Protein C21orf5	S 596	13% (0.00)	0.1337	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00011069	Isoform 2 of Uracil-DNA glycosylase	S 64	13% (0.00)	0.1336	3	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00034006	Tyrosine-protein phosphatase non-receptor type 23	S 1122	13% (-0.80)	0.1335	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00023283	Isoform 2 of Titin	S 16554	13% (0.00)	0.1334	2	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00375358	Isoform 1 of Replication factor C subunit 1	S 366	13% (0.00)	0.1334	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00375359	Isoform 2 of Replication factor C subunit 1	S 366	13% (0.00)	0.1334	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00645814	KIAA1187 protein	S 88	13% (0.00)	0.1334	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00654605	Hypothetical protein RPRC1	S 88	13% (0.00)	0.1334	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00006079	Isoform 1 of Bcl-2-associated transcription factor 1	S 272	13% (0.00)	0.1329	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00413671	Isoform 2 of Bcl-2-associated transcription factor 1	S 270	13% (0.00)	0.1329	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00413672	Isoform 3 of Bcl-2-associated transcription factor 1	S 270	13% (0.00)	0.1329	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00291755	Isoform 1 of Nuclear pore membrane glycoprotein 210 precursor	S 1852	13% (1.67)	0.1325	1	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00106559	Isoform 2 of Tax1-binding protein 1	S 123	13% (0.00)	0.1314	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00657950	Isoform 1 of Tax1-binding protein 1	S 123	13% (0.00)	0.1314	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00006079	Isoform 1 of Bcl-2-associated transcription factor 1	S 389	13% (0.00)	0.1313	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00413671	Isoform 2 of Bcl-2-associated transcription factor 1	S 387	13% (0.00)	0.1313	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00413672	Isoform 3 of Bcl-2-associated transcription factor 1	S 387	13% (0.00)	0.1313	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00401611	PREDICTED: RW1 protein isoform 1	S 1870	13% (0.00)	0.1310	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00719759	Akt substrate AS250	S 819	13% (3.16)	0.1303	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	S 379	13% (0.00)	0.1300	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	S 384	13% (0.00)	0.1300	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00295457	myosin phosphatase-Rho interacting protein isoform 1	S 294	13% (0.00)	0.1294	2	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216654	Isoform Beta of Nucleolar phosphoprotein p130	S 274	13% (0.00)	0.1292	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00292387	Isoform Alpha of Nucleolar phosphoprotein p130	S 264	13% (0.00)	0.1292	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00401282	PREDICTED: hypothetical protein LOC23307	S 438	13% (0.00)	0.1290	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00739371	PREDICTED: similar to Golgi autoantigen, golgin subfamily A member 6	S 443	13% (0.00)	0.1290	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00550746	Nuclear migration protein nudC	S 136	13% (4.12)	0.1290	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00045360	Protein capicua homolog	S 277	13% (0.00)	0.1285	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00166009	Isoform 1 of JmjC domain-containing histone demethylation protein 1A	S 740	13% (0.00)	0.1285	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00006079	Isoform 1 of Bcl-2-associated transcription factor 1	S 262	13% (0.00)	0.1279	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413671	Isoform 2 of Bcl-2-associated transcription factor 1	S 260	13% (0.00)	0.1279	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413672	Isoform 3 of Bcl-2-associated transcription factor 1	S 260	13% (0.00)	0.1279	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00445401	Isoform 2 of HECT, UBA and WWE domain-containing protein 1	S 3539	13% (0.22)	0.1279	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456919	Isoform 1 of HECT, UBA and WWE domain-containing protein 1	S 3555	13% (0.22)	0.1279	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00643153	Isoform 3 of HECT, UBA and WWE domain-containing protein 1	S 3546	13% (0.22)	0.1279	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1110	13% (0.00)	0.1270	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005011	Isoform 1 of CCR4-NOT transcription complex subunit 2	S 160	13% (0.00)	0.1263	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00017733	Isoform 5 of CCR4-NOT transcription complex subunit 2	S 160	13% (0.00)	0.1263	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00027252	Prohibitin-2	S 286	13% (0.00)	0.1263	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00410623	Isoform 4 of CCR4-NOT transcription complex subunit 2	S 160	13% (0.00)	0.1263	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00329635	Isoform 1 of Folliculin	S 300	13% (0.00)	0.1256	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00004344	Isoform 1 of AF4/FMR2 family member 4	S 178	13% (3.71)	0.1251	4	6	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	1	0	0	1	1	0	1	0	0	0	0	0	0	0	0	2	0	0	1	0	0
IPI00383219	Isoform 2 of AF4/FMR2 family member 4	S 178	13% (3.71)	0.1251	4	6	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	1	0	0	1	1	0	1	0	0	0	0	0	0	0	0	2	0	0	1	0	0
IPI00009505	Isoform 1 of Beta-2-syntrophin	S 233	12% (0.00)	0.1250	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00012318	PREDICTED: mitogen-activated protein kinase kinase kinase 1	S 693	12% (0.00)	0.1250	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00013452	glutamyl-prolyl tRNA synthetase	S 886	12% (0.00)	0.1250	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00013933	Isoform DPI of Desmoplakin	S 2607	12% (0.00)	0.1250	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00013933	Isoform DPI of Desmoplakin	S 2608	12% (0.00)	0.1250	2	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00020985	E1A-associated protein p300	S 1037	12% (0.00)	0.1250	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00100453	DENN domain containing protein	S 647	12% (0.00)	0.1250	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00292753	GTPase activating protein and VPS9 domains 1	S 976	12% (0.00)	0.1250	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00294653	Protein C21orf5	S 720	12% (0.00)	0.1250	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00294653	Protein C21orf5	S 721	12% (0.00)	0.1250	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00303812	Protein C9orf82	S 89	12% (0.00)	0.1250	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00335634	Isoform Beta of Paxillin	S 320	12% (0.00)	0.1250	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00376199	Interferon regulatory factor 2 binding protein 2	S 406	12% (0.00)	0.1250	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00425404	Isoform 1 of Kinesin family member 21A	S 855	12% (0.00)	0.1250	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00425405	Isoform 2 of Kinesin family member 21A	S 842	12% (0.00)	0.1250	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00425407	Isoform 3 of Kinesin family member 21A	S 855	12% (0.00)	0.1250	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00425409	Isoform 4 of Kinesin family member 21A	S 855	12% (0.00)	0.1250	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00552897	Isoform 1 of Mediator of DNA damage checkpoint protein 1	S 964	12% (0.00)	0.1250	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641106	227 kDa protein	S 964	12% (0.00)	0.1250	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00643014	retinoblastoma-associated factor 600	S 364	12% (0.00)	0.1250	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00646970	Interferon regulatory factor 2 binding protein 2	S 390	12% (0.00)	0.1250	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00742770	KIAA1521 protein	S 788	12% (0.00)	0.1250	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00746398	hypothetical protein LOC55667	S 763	12% (0.00)	0.1250	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746934	574 kDa protein	S 364	12% (0.00)	0.1250	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00298731	Serine/threonine-protein phosphatase 1 regulatory subunit 10	S 587	12% (0.00)	0.1246	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00028077	Isoform 1 of Presenilin-1	S 365	12% (0.00)	0.1236	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00219934	Isoform 2 of Presenilin-1	S 361	12% (0.00)	0.1236	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00032342	Thyroid receptor-interacting protein 12	S 1376	12% (0.00)	0.1236	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00168459	Isoform 2 of Pleckstrin homology-like domain family B member 2	S 204	12% (0.00)	0.1235	1	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	0	0	0	0	0
IPI00410259	Isoform 1 of Pleckstrin homology-like domain family B member 2	S 204	12% (0.00)	0.1235	1	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	0	0	0	0	0
IPI00657763	Isoform 3 of Pleckstrin homology-like domain family B member 2	S 231	12% (0.00)	0.1235	1	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	0	0	0	0	0
IPI00640055	Novel protein	S 531	12% (0.99)	0.1232	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00021831	cAMP-dependent protein kinase type I-alpha regulatory subunit	S 77	12% (0.00)	0.1228	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00299608	Isoform 1 of 26S proteasome non-ATPase regulatory subunit 1	S 294	12% (1.33)	0.1224	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00644079	heterogeneous nuclear ribonucleoprotein U isoform a	S 187	12% (0.00)	0.1222	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00106567	WD-repeat protein 33	S 1277	12% (1.47)	0.1218	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00166933	Protein C10orf12	S 745	12% (0.00)	0.1216	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00003843	Isoform A1 of Tight junction protein ZO-2	S 394	12% (0.00)	0.1207	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00026089	Splicing factor 3B subunit 1	S 287	12% (0.00)	0.1206	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00032064	Isoform A of A-kinase anchor protein 2	S 861	12% (0.00)	0.1206	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00171217	Isoform B of A-kinase anchor protein 2	S 861	12% (0.00)	0.1206	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00384176	Isoform 1 of Protein polybromo-1	S 177	12% (0.00)	0.1206	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00465433	A kinase (PRKA) anchor protein 2	S 719	12% (0.00)	0.1206	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00031627	DNA-directed RNA polymerase II largest subunit	S 1908	12% (0.00)	0.1200	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00414315	Isoform 1 of Epidermal growth factor receptor kinase substrate 8-like protein 2	S 480	12% (0.00)	0.1199	2	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
IPI00444788	CDNA FLJ44925 fis, clone BRAMY3014613, highly similar to Homo sapiens SH3-domain binding protein	S 200	12% (0.00)	0.1195	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00445123	CDNA FLJ44592 fis, clone BLADE2002310, highly similar to Homo sapiens SH3-domain binding protein 1	S 178	12% (0.00)	0.1195	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456744	Isoform 1 of SH3 domain-binding protein 1	S 264	12% (0.00)	0.1195	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00743804	67 kDa protein	S 184	12% (0.00)	0.1195	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00221325	Ran-binding protein 2	S 2628	12% (0.00)	0.1193	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00384176	Isoform 1 of Protein polybromo-1	S 353	12% (0.00)	0.1193	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00181728	Brix domain-containing protein 2	S 261	12% (0.00)	0.1193	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00008918	Isoform Beta of LIM domain and actin-binding protein 1	S 601	12% (0.00)	0.1186	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00291802	Isoform 3 of LIM domain only protein 7	S 531	12% (0.00)	0.1178	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00513791	dedicator of cytokinesis 7	S 863	12% (0.00)	0.1178	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00001735	nuclear receptor co-repressor 2	S 939	12% (3.96)	0.1176	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00645814	KIAA1187 protein	S 72	12% (6.70)	0.1166	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00654605	Hypothetical protein RPRC1	S 72	12% (6.70)	0.1166	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00166487	Isoform 3 of Protein KIAA0310	S 1903	12% (2.24)	0.1155	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219314	Isoform 2 of Protein KIAA0310	S 1903	12% (2.24)	0.1155	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641384	Isoform 1 of Protein KIAA0310	S 1903	12% (2.24)	0.1155	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456359	Isoform 1 of Ataxin-2-like protein	S 423	12% (0.00)	0.1150	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456361	Isoform 2 of Ataxin-2-like protein	S 423	12% (0.00)	0.1150	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456363	Isoform 3 of Ataxin-2-like protein	S 423	12% (0.00)	0.1150	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456365	Isoform 4 of Ataxin-2-like protein	S 423	12% (0.00)	0.1150	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456367	Isoform 5 of Ataxin-2-like protein	S 423	12% (0.00)	0.1150	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456369	Isoform 6 of Ataxin-2-like protein	S 423	12% (0.00)	0.1150	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00384861	Isoform 1 of ARF GTPase-activating protein GIT1	S 361	11% (0.00)	0.1148	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00465275	Isoform 1 of Ran-binding protein 9	S 485	11% (0.00)	0.1146	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00513912	KB07 protein	S 325	11% (0.00)	0.1146	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00644521	36 kDa protein	S 180	11% (0.00)	0.1131	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00008179	Isoform 1 of Sulfotransferase family cytosolic 2B member 1	S 348	11% (0.00)	0.1127	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
IPI00328142	Isoform 2 of Sulfotransferase family cytosolic 2B member 1	S 333	11% (0.00)	0.1127	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
IPI00291755	Isoform 1 of Nuclear pore membrane glycoprotein 210 precursor	S 1856	11% (0.00)	0.1127	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
IPI00001813	CTD-binding SR-like protein rA9	S 1375	11% (0.00)	0.1118	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00003842	Isoform 1 of Microtubule-associated protein 2	S 1800	11% (0.00)	0.1117	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010728	203 kDa protein	S 1831	11% (0.00)	0.1117	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00472094	Isoform 3 of Microtubule-associated protein 2	S 1796	11% (0.00)	0.1117	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00009771	Lamin-B2	S 407	11% (-3.31)	0.1114	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00217975	Lamin-B1	S 392	11% (-3.31)	0.1114	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005809	Serum deprivation-response protein	S 25	11% (0.00)	0.1111	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00008868	Microtubule-associated protein 1B	S 1792	11% (0.00)	0.1111	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00012442	Ras-GTPase-activating protein-binding protein 1	S 230	11% (2.01)	0.1111	6	17	0	0	2	0	0	1	0	1	1	0	0	0	0	0	0	1	0	0	1	1	3	0	1	0	0	1	2	0	1	2	0	1	2	1	0	1	0	0	0	0
IPI00012442	Ras-GTPase-activating protein-binding protein 1	S 231	11% (0.00)	0.1111	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00021695	Isoform D of Plasma membrane calcium-transporting ATPase 1	S 1257	11% (0.00)	0.1111	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00021907	Isoform 1 of Myelin basic protein	S 40	11% (0.00)	0.1111	1	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00022624	Retinoic acid-induced protein 3	S 301	11% (0.00)	0.1111	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216474	Isoform 2 of Myelin basic protein	S 40	11% (0.00)	0.1111	1	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00216527	Isoform B of Plasma membrane calcium-transporting ATPase 1	S 1219	11% (0.00)	0.1111	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00216528	Isoform C of Plasma membrane calcium-transporting ATPase 1	S 1248	11% (0.00)	0.1111	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00216530	Isoform K of Plasma membrane calcium-transporting ATPase 1	S 1183	11% (0.00)	0.1111	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00292753	GTPase activating protein and VPS9 domains 1	S 453	11% (0.00)	0.1111	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00374770	microtubule-associated protein 1B isoform 2	S 1666	11% (0.00)	0.1111	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00419373	Isoform 1 of Heterogeneous nuclear ribonucleoprotein A3	S 356	11% (0.00)	0.1111	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00742770	KIAA1521 protein	S 292	11% (0.00)	0.1111	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00744288	Isoform 5 of C-jun-amino-terminal kinase-interacting protein 4	S 350	11% (0.00)	0.1111	+ 2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00337530	Isoform 1 of RalBP1-associated Eps domain-containing protein 1	S 221	11% (5.14)	0.1106	+ 1	+ 3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00337532	Isoform 3 of RalBP1-associated Eps domain-containing protein 1	S 221	11% (5.14)	0.1106	+ 1	+ 3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00156793	DNA-repair protein complementing XP-C cells	S 393	11% (-0.13)	0.1101	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00219420	Structural maintenance of chromosome 3	S 1081	11% (0.00)	0.1097	+ 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00152377	Source of immunodominant MHC-associated peptides	S 18	11% (0.00)	0.1083	+ 1	+ 1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00307592	ATP-binding cassette, sub-family A, member 2 isoform a	S 1547	11% (0.00)	0.1082	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00414303	ATP-binding cassette, sub-family A, member 2 isoform b	S 1577	11% (0.00)	0.1082	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00170594	transcription factor ELYS	S 1520	11% (-0.42)	0.1076	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00217957	ELYS transcription factor-like protein TMBS62	S 1547	11% (-0.42)	0.1076	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216219	Isoform Long of Tight junction protein ZO-1	S 927	11% (0.41)	0.1069	+ 1	+ 6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00297251	MGRN1 protein	S 460	11% (0.00)	0.1064	+ 1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00643212	KIAA0544 protein	S 460	11% (0.00)	0.1064	+ 1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00038698	Retinoblastoma-associated protein RAP140	S 422	11% (0.00)	0.1055	+ 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00104050	Thyroid hormone receptor-associated protein 3	S 377	11% (0.00)	0.1055	+ 2	+ 1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00302594	hypothetical protein LOC91748	S 700	11% (0.00)	0.1054	+ 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746419	IMP dehydrogenase/GMP reductase family protein	S 1936	10% (0.00)	0.1046	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00152853	Isoform 1 of Protein KIAA1949	S 224	10% (5.43)	0.1021	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00735653	PREDICTED: similar to Protein KIAA1949 isoform 4	S 224	10% (5.43)	0.1021	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00337335	Isoform 1 of Myosin-14	S 1981	10% (-0.75)	0.1006	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00607778	Isoform 4 of Myosin-14	S 1764	10% (-0.75)	0.1006	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00607818	Isoform 2 of Myosin-14	S 2013	10% (-0.75)	0.1006	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00152007	Tumor endothelial marker 4	S 145	10% (0.00)	0.1004	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00006079	Isoform 1 of Bcl-2-associated transcription factor 1	S 759	10% (0.00)	0.1000	+ 1	+ 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00007183	Hypothetical protein ARL6IP2	S 24	10% (0.00)	0.1000	+ 1	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00008918	Isoform Beta of LIM domain and actin-binding protein 1	S 230	10% (0.00)	0.1000	+ 1	+ 1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00169267	ARL6IP2	S 24	10% (0.00)	0.1000	+ 1	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00413671	Isoform 2 of Bcl-2-associated transcription factor 1	S 757	10% (0.00)	0.1000	+ 1	+ 1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413672	Isoform 3 of Bcl-2-associated transcription factor 1	S 757	10% (0.00)	0.1000	+ 1	+ 1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00256859	Microtubule-actin crosslinking factor 1	S 317	10% (0.00)	0.1000	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00170935	Leucine-rich repeat-containing protein 47	S 518	10% (0.00)	0.0992	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00419433	Isoform 1 of Rab11 family-interacting protein 1	S 206	10% (-3.62)	0.0992	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00436632	Isoform 1 of Nipped-B-like protein	S 367	10% (0.00)	0.0986	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00179473	Isoform 1 of Sequestosome-1	S 367	10% (0.00)	0.0980	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00651643	Isoform 2 of Sequestosome-1	S 365	10% (0.00)	0.0980	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00413144	Hypothetical protein DKFZp686B18208	S 120	10% (0.00)	0.0975	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00014456	Striatin	S 378	10% (0.00)	0.0965	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00654594	STRN protein	S 341	10% (0.00)	0.0965	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00643923	PREDICTED: similar to HLA-B associated transcript-2 isoform a isoform 10	S 224	10% (0.00)	0.0964	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00741537	PREDICTED: hypothetical protein LOC84726 isoform 1	S 224	10% (0.00)	0.0964	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00555610	313 kDa protein	S 2864	10% (0.00)	0.0951	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413362	signal-induced proliferation-associated 1 like 1	S 1130	10% (0.00)	0.0951	+ 1	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00435422	Isoform 2 of Signal-induced proliferation-associated 1-like protein 1	S 1130	10% (0.00)	0.0951	+ 1	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00306723	CCAAT/enhancer-binding protein zeta	S 154	10% (0.00)	0.0951	+ 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00738223	PREDICTED: similar to rho guanine nucleotide exchange factor 5 isoform 1 isoform 1	S 1126	9% (0.00)	0.0943	+ 1	+ 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00292059	Nuclear pore complex protein Nup153	S 219	9% (0.00)	0.0943	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00480157	154 kDa protein	S 219	9% (0.00)	0.0943	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514528	nucleoporin 153kDa	S 219	9% (0.00)	0.0943	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00260388	PHD finger protein 2	S 534	9% (0.00)	0.0933	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00376493	PHD finger protein 2 isoform b	S 534	9% (0.00)	0.0933	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00477501	121 kDa protein	S 533	9% (0.00)	0.0933	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00302594	hypothetical protein LOC91748	S 632	9% (0.00)	0.0932	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00217121	Protein C19orf21	S 376	9% (0.00)	0.0922	+ 1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00031627	DNA-directed RNA polymerase II largest subunit	S 1849	9% (4.86)	0.0919	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00399254	OTU domain containing 4 protein isoform 1	S 480	9% (0.00)	0.0915	0	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00065931	A-kinase anchor protein 13 isoform 1	S 2477	9% (4.15)	0.0914	0	+ 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00029273	Isoform 1 of Hepatocyte growth factor receptor precursor	S 990	9% (0.91)	0.0911	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00294528	Isoform 2 of Hepatocyte growth factor receptor precursor	S 1008	9% (0.91)	0.0911	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00552897	Isoform 1 of Mediator of DNA damage checkpoint protein 1	S 1523	9% (0.00)	0.0906	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00641106	227 kDa protein	S 1523	9% (0.00)	0.0906	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00030131	thymopoietin isoform beta	S 158	9% (0.00)	0.0899	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00216230	Lamina-associated polypeptide 2 isoform alpha	S 157	9% (0.00)	0.0899	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1142	9% (0.00)	0.0895	* 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413362	signal-induced proliferation-associated 1 like 1	S 1564	9% (0.00)	0.0889	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00435422	Isoform 2 of Signal-induced proliferation-associated 1-like protein 1	S 1543	9% (0.00)	0.0889	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00744767	SAMD4A protein	S 419	9% (0.00)	0.0886	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00106847	Isoform GTBP-alt of DNA mismatch repair protein MSH6	S 254	9% (0.00)	0.0879	* 2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00020042	Isoform 1 of 26S protease regulatory subunit 6B	S 28	9% (-3.32)	0.0878	* 1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00738042	PREDICTED: similar to 26S protease regulatory subunit 6B	S 24	9% (-3.32)	0.0878	* 1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00440727	Isoform 1 of Bromodomain-containing protein 4	S 1074	9% (0.00)	0.0866	* 1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00028493	Isoform 1 of Tuberin	S 1387	9% (0.00)	0.0858	* 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218883	Isoform 4 of Tuberin	S 1364	9% (0.00)	0.0858	* 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00023344	Isoform 1 of Symplekin	S 1170	9% (0.00)	0.0855	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746292	symplekin	S 1038	9% (0.00)	0.0855	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00008918	Isoform Beta of LIM domain and actin-binding protein 1	S 228	8% (0.00)	0.0842	* 3	* 2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00171252	enhancer of zeste 2 isoform b	S 341	8% (9.18)	0.0841	* 1	* 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00376787	enhancer of zeste 2 isoform a	S 385	8% (9.18)	0.0841	* 1	* 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00619921	Isoform 4 of Death-inducer obliterator 1	S 1712	8% (0.00)	0.0831	0	* 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0
IPI00290094	Splicing factor, arginine/serine-rich 8	S 282	8% (0.00)	0.0828	* 3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00656088	Isoform 1 of Ras-associated and pleckstrin homology domains-containing protein 1	S 140	8% (0.00)	0.0825	* 1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00007675	Cytoplasmic dynein 1 light intermediate chain 1	S 523	8% (0.00)	0.0824	* 1	* 2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
IPI00744767	SAMD4A protein	S 578	8% (0.00)	0.0817	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00413140	Dynamin-1	S 780	8% (0.00)	0.0816	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00514850	dynamin 1 isoform 2	S 777	8% (0.00)	0.0816	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00552861	dynamin 1 isoform 1	S 777	8% (0.00)	0.0816	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00022450	TBC1 domain family member 5	S 538	8% (0.00)	0.0816	* 1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00106567	WD-repeat protein 33	S 1278	8% (0.00)	0.0816	* 2	* 1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00438286	Isoform 1 of LAP2 protein	S 715	8% (0.00)	0.0810	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00438287	Isoform 2 of LAP2 protein	S 715	8% (0.00)	0.0810	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00438288	Isoform 3 of LAP2 protein	S 715	8% (0.00)	0.0810	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00438290	Isoform 5 of LAP2 protein	S 715	8% (0.00)	0.0810	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00438292	Isoform 7 of LAP2 protein	S 715	8% (0.00)	0.0810	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748753	153 kDa protein	S 715	8% (0.00)	0.0810	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00166487	Isoform 3 of Protein KIAA0310	S 1190	8% (0.00)	0.0804	0	* 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00219314	Isoform 2 of Protein KIAA0310	S 1190	8% (0.00)	0.0804	0	* 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00641384	Isoform 1 of Protein KIAA0310	S 1190	8% (0.00)	0.0804	0	* 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00003842	Isoform 1 of Microtubule-associated protein 2	S 729	8% (0.00)	0.0804	0	* 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00010728	203 kDa protein	S 729	8% (0.00)	0.0804	0	* 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00472094	Isoform 3 of Microtubule-associated protein 2	S 725	8% (0.00)	0.0804	0	* 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00064931	Isoform 2 of E1A-binding protein p400	S 183	8% (0.23)	0.0803	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00167535	344 kDa protein	S 183	8% (0.23)	0.0803	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00477005	E1A binding protein p400	S 183	8% (0.23)	0.0803	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00479168	Isoform 1 of E1A-binding protein p400	S 183	8% (0.23)	0.0803	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748478	Isoform 4 of E1A-binding protein p400	S 183	8% (0.23)	0.0803	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00007764	hematological and neurological expressed 1 isoform 1	S 92	8% (5.55)	0.0802	* 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00384857	Isoform 2 of Hematological and neurological expressed 1 protein	S 91	8% (5.55)	0.0802	* 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00302829	Retinoblastoma-associated protein	S 780	8% (2.50)	0.0785	0	* 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00479926	Isoform 2 of Ribosomal protein S6 kinase alpha-4	S 676	8% (1.32)	0.0783	* 1	* 3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0
IPI00032936	ETS domain-containing transcription factor ERF	S 21	8% (0.00)	0.0782	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00442167	CDNA FLJ16400 fis, clone TUTER2000057, moderately similar to Mus musculus AE-1 binding protein AEE	S 237	8% (0.00)	0.0777	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00442167	CDNA FLJ16400 fis, clone TUTER2000057, moderately similar to Mus musculus AE-1 binding protein AEE	S 238	8% (0.00)	0.0777	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00396057	Isoform C of Protein C9orf10	S 383	8% (0.00)	0.0773	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00743942	Similar to C90rf10-like protein	S 382	8% (0.00)	0.0773	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00299824	Isoform 1 of Connector enhancer of kinase suppressor of ras 1	S 307	8% (0.91)	0.0771	* 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00451417	Isoform 2 of Connector enhancer of kinase suppressor of ras 1	S 300	8% (0.91)	0.0771	* 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00552897	Isoform 1 of Mediator of DNA damage checkpoint protein 1	S 1481	8% (0.00)	0.0770	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641106	227 kDa protein	S 1481	8% (0.00)	0.0770	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00297593	Ubiquitin-specific proteinase 34	S 3386	8% (0.00)	0.0769	* 1	* 1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00464952	Splicing factor arginine/serine-rich 11	S 323	8% (0.00)	0.0765	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00641287	Splicing factor p54	S 323	8% (0.00)	0.0765	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00641842	Splicing factor, arginine₩/serine-rich 11	S 263	8% (0.00)	0.0765	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00384541	Novel protein	S 730	8% (-1.29)	0.0764	* 2	* 3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
IPI00639879	Novel protein	S 704	8% (-1.29)	0.0764	* 2	* 3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
IPI00008200	Isoform 1 of YEATS domain-containing protein 2	S 985	8% (0.00)	0.0760	* 4	* 5	0	0	0	0	0	2	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	1	0	0	0	0	1
IPI00010200	YTH domain containing 2	S 1089	8% (0.00)	0.0753	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00744288	Isoform 5 of C-jun-amino-terminal kinase-interacting protein 4	S 333	7% (0.00)	0.0736	+ 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00021048	Isoform 1 of Myoferlin	S 729	7% (0.00)	0.0732	+ 1	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00001632	hypothetical protein LOC57648	S 406	7% (0.00)	0.0728	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00023344	Isoform 1 of Symplekin	S 1171	7% (0.00)	0.0728	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00645725	108 kDa protein	S 417	7% (0.00)	0.0728	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746292	symplekin	S 1039	7% (0.00)	0.0728	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00410079	Cerebral protein-10	S 50	7% (0.00)	0.0724	+ 1	+ 1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
IPI00186711	plectin 1 isoform 6	S 4384	7% (0.00)	0.0717	‖ 9	‖ 13	0	1	0	1	0	0	0	1	1	1	0	0	0	2	1	1	0	0	1	1	0	1	0	0	1	1	1	1	0	0	2	2	1	1	0	0
IPI00398002	plectin 1 isoform 1	S 4274	7% (0.00)	0.0717	‖ 9	‖ 13	0	1	0	1	0	0	0	1	1	1	0	0	0	2	1	1	0	0	1	1	0	1	0	0	1	1	1	1	0	0	2	2	1	1	0	0
IPI00398779	plectin 1 isoform 11	S 4247	7% (0.00)	0.0717	‖ 9	‖ 13	0	1	0	1	0	0	0	1	1	1	0	0	0	2	1	1	0	0	1	1	0	1	0	0	1	1	1	1	0	0	2	2	1	1	0	0
IPI00154915	Isoform 1 of Partitioning-defective 3 homolog	S 143	7% (0.00)	0.0715	+ 1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00179063	Isoform 4 of Partitioning-defective 3 homolog	S 143	7% (0.00)	0.0715	+ 1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00301595	Isoform 2 of Partitioning-defective 3 homolog	S 143	7% (0.00)	0.0715	+ 1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00301597	Par-3 partitioning defective 3 homolog	S 143	7% (0.00)	0.0715	+ 1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00294834	Aspartyl/asparaginyl beta-hydroxylase	S 28	7% (0.00)	0.0714	+ 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00552897	Isoform 1 of Mediator of DNA damage checkpoint protein 1	S 1195	7% (0.00)	0.0714	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00641106	227 kDa protein	S 1195	7% (0.00)	0.0714	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00658152	tensin-like SH2 domain containing 1	S 363	7% (0.00)	0.0714	+ 1	+ 3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0
IPI00759836	Tensin	S 465	7% (0.00)	0.0714	+ 1	+ 3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0
IPI00303797	B-Raf proto-oncogene serine/threonine-protein kinase	S 363	7% (2.33)	0.0694	+ 3	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00021076	Isoform Long of Plakophilin-4	S 335	7% (0.00)	0.0693	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00334400	Isoform Short of Plakophilin-4	S 335	7% (0.00)	0.0693	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00747119	plakophilin 4 isoform b	S 335	7% (0.00)	0.0693	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00003842	Isoform 1 of Microtubule-associated protein 2	S 1798	7% (0.00)	0.0688	+ 1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010728	203 kDa protein	S 1829	7% (0.00)	0.0688	+ 1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00472094	Isoform 3 of Microtubule-associated protein 2	S 1794	7% (0.00)	0.0688	+ 1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00658152	tensin-like SH2 domain containing 1	S 362	7% (0.00)	0.0677	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00759836	Tensin	S 464	7% (0.00)	0.0677	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00030915	Ubiquitin carboxyl-terminal hydrolase 8	S 716	7% (0.00)	0.0665	+ 1	+ 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00005688	Zinc finger protein 185	S 338	7% (0.00)	0.0665	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00550821	Isoform 1 of Cleavage and polyadenylation specificity factor 7	S 47	7% (0.00)	0.0659	0	+ 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00719106	Isoform 2 of Cleavage and polyadenylation specificity factor 7	S 47	7% (0.00)	0.0659	0	+ 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00032064	Isoform A of A-kinase anchor protein 2	S 862	7% (0.00)	0.0656	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00171217	Isoform B of A-kinase anchor protein 2	S 862	7% (0.00)	0.0656	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00465433	A kinase (PRKA) anchor protein 2	S 720	7% (0.00)	0.0656	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00008200	Isoform 1 of YEATS domain-containing protein 2	S 519	6% (0.00)	0.0648	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00297655	Neurogenic locus notch homolog protein 2 precursor	S 1845	6% (2.10)	0.0648	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00744005	notch 2 preproprotein	S 1845	6% (2.10)	0.0648	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00619921	Isoform 4 of Death-inducer obliterator 1	S 1713	6% (0.00)	0.0647	+ 1	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00174025	Isoform 1 of Dynamin-binding protein	S 1356	6% (1.04)	0.0632	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1041	6% (0.00)	0.0622	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00003527	Ezrin-radixin-moesin-binding phosphoprotein 50	S 290	6% (0.00)	0.0618	+ 1	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00002186	Brefeldin A-inhibited guanine nucleotide-exchange protein 2	S 1514	6% (0.00)	0.0614	+ 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00104050	Thyroid hormone receptor-associated protein 3	S 312	6% (1.72)	0.0612	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00166487	Isoform 3 of Protein KIAA0310	S 1194	6% (0.00)	0.0611	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00219314	Isoform 2 of Protein KIAA0310	S 1194	6% (0.00)	0.0611	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00641384	Isoform 1 of Protein KIAA0310	S 1194	6% (0.00)	0.0611	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00470478	374 kDa protein	S 343	6% (0.00)	0.0604	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00642126	chromosome 17 open reading frame 27	S 343	6% (0.00)	0.0604	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00011857	Chromatin assembly factor 1 subunit B	S 410	6% (0.91)	0.0602	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00000192	Isoform F of SON protein	S 1769	6% (1.47)	0.0597	+ 1	+ 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00217930	Isoform J of SON protein	S 1769	6% (1.47)	0.0597	+ 1	+ 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218617	SON protein	S 1731	6% (1.47)	0.0597	+ 1	+ 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218619	Isoform C of SON protein	S 1769	6% (1.47)	0.0597	+ 1	+ 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218620	Isoform D of SON protein	S 1769	6% (1.47)	0.0597	+ 1	+ 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218622	Isoform G of SON protein	S 1729	6% (1.47)	0.0597	+ 1	+ 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218624	Isoform I of SON protein	S 1809	6% (1.47)	0.0597	+ 1	+ 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00382737	SON DNA-binding protein isoform G	S 1729	6% (1.47)	0.0597	+ 1	+ 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00401958	SON DNA-binding protein isoform C	S 1769	6% (1.47)	0.0597	+ 1	+ 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00029795	Isoform 4 of Nuclear factor 1 C-type	S 322	6% (0.00)	0.0575	+ 1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218035	Isoform 1 of Nuclear factor 1 C-type	S 313	6% (0.00)	0.0575	+ 1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218037	Isoform 2 of Nuclear factor 1 C-type	S 313	6% (0.00)	0.0575	+ 1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218039	Isoform 3 of Nuclear factor 1 C-type	S 289	6% (0.00)	0.0575	+ 1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218041	Isoform 5 of Nuclear factor 1 C-type	S 322	6% (0.00)	0.0575	+ 1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00292376	GEM-interacting protein	S 231	6% (-1.18)	0.0573	0	+ 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00304885	Centromere protein C 1	S 535	6% (-0.51)	0.0565	0	+ 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00015580	formin binding protein 1-like isoform 2	S 431	6% (0.00)	0.0564	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00028718	Formin binding protein 1-like	S 484	6% (0.00)	0.0564	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00607808	formin binding protein 1-like isoform 1	S 431	6% (0.00)	0.0564	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00646028	Formin binding protein 1-like	S 484	6% (0.00)	0.0564	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00737871	PREDICTED: similar to angiomotin	S 717	6% (-2.90)	0.0564	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00006752	Isoform 1 of Mitogen-activated protein kinase kinase kinase kinase 4	S 698	5% (0.00)	0.0548	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00028122	Isoform 1 of PC4 and SFRS1-interacting protein	S 171	5% (0.00)	0.0542	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456359	Isoform 1 of Ataxin-2-like protein	S 598	5% (0.00)	0.0532	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456361	Isoform 2 of Ataxin-2-like protein	S 598	5% (0.00)	0.0532	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456363	Isoform 3 of Ataxin-2-like protein	S 598	5% (0.00)	0.0532	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456365	Isoform 4 of Ataxin-2-like protein	S 598	5% (0.00)	0.0532	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456367	Isoform 5 of Ataxin-2-like protein	S 598	5% (0.00)	0.0532	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456369	Isoform 6 of Ataxin-2-like protein	S 598	5% (0.00)	0.0532	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00656088	Isoform 1 of Ras-associated and pleckstrin homology domains-containing protein 1	S 1064	5% (-0.48)	0.0499	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00216219	Isoform Long of Tight junction protein ZO-1	S 404	5% (0.00)	0.0497	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00043978	Isoform 1 of Amyotrophic lateral sclerosis 2 chromosome region candidate gene 19 protein	S 744	5% (0.00)	0.0486	3	1	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00075719	amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 19 isoform b	S 683	5% (0.00)	0.0486	3	1	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00409640	LISCH protein isoform 2	S 363	5% (0.00)	0.0486	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00409641	LISCH protein isoform 3	S 295	5% (0.00)	0.0486	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00409695	amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 19 isoform a	S 745	5% (0.00)	0.0486	3	1	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00641640	LISCH protein isoform 1	S 344	5% (0.00)	0.0486	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00009326	65 kDa Yes-associated protein	S 317	5% (0.00)	0.0481	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00170979	Isoform 2 of Ena/VASP-like protein	S 242	5% (-8.26)	0.0481	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00216919	YAP1 protein	S 367	5% (0.00)	0.0481	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218245	Isoform 1 of Ena/VASP-like protein	S 244	5% (-8.26)	0.0481	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00237884	Isoform 1 of A-kinase anchor protein 12	S 503	5% (0.00)	0.0479	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00220835	Protein transport protein Sec61 beta subunit	S 18	5% (0.00)	0.0478	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00291802	Isoform 3 of LIM domain only protein 7	S 1089	5% (0.00)	0.0471	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 357	5% (0.00)	0.0467	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00004344	Isoform 1 of AF4/FMR2 family member 4	S 210	5% (0.00)	0.0461	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00383219	Isoform 2 of AF4/FMR2 family member 4	S 210	5% (0.00)	0.0461	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00020124	Phosphatidylinositol 4-kinase type Ⅱ	S 460	5% (0.00)	0.0461	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0
IPI00643014	retinoblastoma-associated factor 600	S 2885	4% (0.00)	0.0446	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00746934	574 kDa protein	S 2886	4% (0.00)	0.0446	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	S 1140	4% (0.00)	0.0443	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00396627	Isoform 1 of Zinc phosphodiesterase ELAC protein 2	S 205	4% (0.00)	0.0443	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00445401	Isoform 2 of HECT, UBA and WWE domain-containing protein 1	S 2917	4% (0.00)	0.0413	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00456919	Isoform 1 of HECT, UBA and WWE domain-containing protein 1	S 2917	4% (0.00)	0.0413	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00643153	Isoform 3 of HECT, UBA and WWE domain-containing protein 1	S 2908	4% (0.00)	0.0413	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00106955	Hypothetical protein LOC144097	S 154	4% (0.00)	0.0404	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00398505	Ubiquitin carboxyl-terminal hydrolase 24	S 2081	4% (0.00)	0.0395	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00006937	Ubiquitin-conjugating enzyme E2 J1	S 268	4% (-2.29)	0.0390	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005904	Probable ATP-dependent RNA helicase DDX20	S 703	4% (0.00)	0.0386	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00026952	Plakophilin-3	S 240	4% (0.00)	0.0386	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00004671	Golgin subfamily B member 1	S 537	4% (-0.91)	0.0385	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00180625	KIAA0284 protein	S 349	4% (0.00)	0.0380	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00031519	Isoform 1 of DNA	S 203	4% (-1.16)	0.0360	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00017030	Isoform 1 of Myosin-18A	S 2044	3% (0.00)	0.0348	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218753	Isoform 3 of DNA topoisomerase 2-alpha	S 1512	3% (0.00)	0.0343	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00218754	Isoform 4 of DNA topoisomerase 2-alpha	S 1557	3% (0.00)	0.0343	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00414101	Isoform 2 of DNA topoisomerase 2-alpha	S 1503	3% (0.00)	0.0343	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00478232	Isoform 1 of DNA topoisomerase 2-alpha	S 1513	3% (0.00)	0.0343	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00442274	nuclear transcription factor, X-box binding-like 1	S 50	3% (0.00)	0.0329	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218729	Isoform 2 of Disks large homolog 1	S 122	3% (-4.17)	0.0299	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00552511	Isoform 4 of Disks large homolog 1	S 122	3% (-4.17)	0.0299	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00373870	Isoform 1 of Chromodomain helicase-DNA-binding protein 3	S 712	3% (0.00)	0.0287	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00465222	chromodomain helicase DNA binding protein 3 isoform 3	S 757	3% (0.00)	0.0287	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00657692	Goodpasture antigen-binding protein	S 503	3% (-3.12)	0.0277	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00472044	Isoform 1 of GTPase-activating Rap/Ran-GAP domain-like 1	S 842	3% (-0.95)	0.0276	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00291802	Isoform 3 of LIM domain only protein 7	S 686	3% (10.25)	0.0262	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00012885	Isoform 1 of Focal adhesion kinase 1	S 708	3% (0.00)	0.0261	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413961	PTK2 protein tyrosine kinase 2 isoform b	S 730	3% (0.00)	0.0261	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00749256	PTK2 protein tyrosine kinase 2 isoform b variant (Fragment)	S 660	3% (0.00)	0.0261	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00027280	Isoform Beta-2 of DNA topoisomerase 2-beta	S 1452	2% (0.00)	0.0246	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00217709	Isoform Beta-1 of DNA topoisomerase 2-beta	S 1447	2% (0.00)	0.0246	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00304875	Isoform 1 of HIRA-interacting protein 3	S 372	2% (0.00)	0.0222	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00438170	Isoform 1 of Sorting nexin-12	S 73	2% (0.00)	0.0222	1	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0
IPI00438171	Isoform 2 of Sorting nexin-12	S 73	2% (0.00)	0.0222	1	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0
IPI00743822	20 kDa protein	S 73	2% (0.00)	0.0222	1	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0
IPI00438286	Isoform 1 of LAP2 protein	S 444	2% (0.00)	0.0211	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00438287	Isoform 2 of LAP2 protein	S 444	2% (0.00)	0.0211	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00438288	Isoform 3 of LAP2 protein	S 444	2% (0.00)	0.0211	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00438290	Isoform 5 of LAP2 protein	S 444	2% (0.00)	0.0211	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00438292	Isoform 7 of LAP2 protein	S 444	2% (0.00)	0.0211	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00748753	153 kDa protein	S 444	2% (0.00)	0.0211	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00293451	Tight junction protein ZO-3	S 169	2% (0.00)	0.0204	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00744036	tight junction protein 3	S 188	2% (0.00)	0.0204	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00292134	Epidermal growth factor receptor substrate 15	S 324	2% (0.00)	0.0198	2	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00385325	Epidermal growth factor receptor pathway substrate 15	S 324	2% (0.00)	0.0198	2	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00006211	VAMP-associated protein B/C	S 204	2% (0.00)	0.0185	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00020194	Isoform Short of TATA-binding protein-associated factor 2N	S 198	2% (0.00)	0.0184	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00294426	Isoform Long of TATA-binding protein-associated factor 2N	S 201	2% (0.00)	0.0184	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00185027	Isoform 1 of Arginine-glutamic acid dipeptide repeats protein	S 675	2% (-4.02)	0.0179	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00465287	ras responsive element binding protein 1 isoform 2	S 44	2% (-3.53)	0.0166	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00465288	ras responsive element binding protein 1 isoform 1	S 44	2% (-3.53)	0.0166	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00743778	76 kDa protein	S 405	2% (0.00)	0.0160	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005184	Isoform Long of Transcription intermediary factor 1-alpha	S 808	1% (0.00)	0.0149	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00184317	Isoform Short of Transcription intermediary factor 1-alpha	S 774	1% (0.00)	0.0149	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00013537	Hypothetical protein FLJ20004	S 323	1% (3.26)	0.0146	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00019472	Neutral amino acid transporter B(0)	S 493	1% (0.00)	0.0134	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00418313	Isoform 4 of Interleukin enhancer-binding factor 3	S 384	1% (0.00)	0.0082	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
IPI00171273	Isoform A of Myotubularin-related protein 3	S 651	1% (-3.19)	0.0080	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00171274	Isoform C of Myotubularin-related protein 3	S 651	1% (-3.19)	0.0080	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00185018	Isoform B of Myotubularin-related protein 3	S 651	1% (-3.19)	0.0080	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00030915	Ubiquitin carboxyl-terminal hydrolase 8	S 389	1% (-4.48)	0.0074	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00413362	signal-induced proliferation-associated 1 like 1	S 1554	1% (9.96)	0.0069	2	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00435422	Isoform 2 of Signal-induced proliferation-associated 1-like protein 1	S 1533	1% (9.96)	0.0069	2	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00024291	Bcl2-antagonist of cell death	S 97	1% (-1.12)	0.0066	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00748920	splicing coactivator subunit SRm300	S 1652	0% (0.00)	0.0047	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00619921	Isoform 4 of Death-inducer obliterator 1	S 811	0% (0.00)	0.0023	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00382733	Transcription repressor	S 94	0% (0.00)	0.0022	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00008283	Zinc finger protein 106 homolog	S 859	0% (-5.14)	0.0016	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00006038	Isoform 1 of Nuclear pore complex protein Nup98-Nup96 precursor	S 625	0% (0.00)	0.0016	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00386718	Isoform Short of Probable global transcription activator SNF2L2	S 1546	0% (0.00)	0.0015	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00513760	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin a2 isoform b	S 1550	0% (0.00)	0.0015	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514648	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin a2 isoform a	S 1568	0% (0.00)	0.0015	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00002232	Isoform 1 of Serine/threonine-protein kinase TAO1	S 426	0% (0.00)	0.0006	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00737871	PREDICTED: similar to angiomotin	S 763	0% (0.00)	0.0004	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218823	Isoform 1 of Myeloid/lymphoid or mixed-lineage leukemia protein 4	S 848	0% (0.00)	0.0000	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00000690	Isoform 1 of Programmed cell death protein 8, mitochondrial precursor	T 105	100% (1,000.00)	1.0000	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00001649	DNAJ domain-containing	T 146	100% (1,000.00)	1.0000	2	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
IPI00001649	DNAJ domain-containing	T 147	100% (1,000.00)	1.0000	2	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
IPI00001649	DNAJ domain-containing	T 148	100% (1,000.00)	1.0000	2	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
IPI00004497	Breakpoint cluster region protein	T 994	100% (1,000.00)	1.0000	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005605	Isoform 1 of Protein NDRG3	T 322	100% (1,000.00)	1.0000	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005625	136 kDa protein	T 947	100% (107.16)	1.0000	19	14	3	3	0	0	0	0	3	4	0	0	0	0	2	4	0	0	0	0	1	4	0	0	0	0	2	3	0	0	0	0	2	2	0	0	0
IPI00005648	Scaffold attachment factor B2	T 223	100% (1,000.00)	1.0000	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00005826	HECT domain and RCC1-like domain-containing protein 2	T 2652	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00005826	HECT domain and RCC1-like domain-containing protein 2	T 2653	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00006213	Pericentriol material 1	T 531	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00006298	Isoform 1 of Peptidyl-prolyl cis-trans isomerase G	T 748	100% (1,000.00)	1.0000	11	4	0	2	0	0	0	0	0	4	1	1	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0
IPI00007138	Isoform 1 of Disks large-associated protein 4	T 912	100% (62.09)	1.0000	1	4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	0	0
IPI00007423	Isoform 1 of Acidic leucine-rich nuclear phosphoprotein 32 family member B	T 244	100% (1,000.00)	1.0000	2	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00007702	Heat shock-related 70 kDa protein 2	T 83	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00008422	Isoform 2 of SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A co	T 54	100% (52.05)	1.0000	3	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	T 337	100% (43.07)	1.0000	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	T 1676	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00009866	Isoform 1 of Keratin, type I cytoskeletal 13	T 442	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00009866	Isoform 1 of Keratin, type I cytoskeletal 13	T 443	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00010700	Isoform 1 of Large proline-rich protein BAT2	T 782	100% (1,000.00)	1.0000	3	3	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00012202	Methylosome protein 50	T 5	100% (1,000.00)	1.0000	12	9	0	0	0	4	0	0	0	0	0	3	0	0	0	0	0	5	0	0	0	0	0	2	0	0	0	0	0	1	3	0	0	0	0	1	2	0	0
IPI00013174	Isoform 1 of RNA-binding protein 14	T 206	100% (1,000.00)	1.0000	32	27	2	2	3	2	3	0	2	2	2	2	2	0	2	2	2	2	2	0	1	2	1	1	2	0	2	1	2	2	2	0	2	2	2	2	3	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00013214	DNA replication licensing factor MCM3	T 674	100% (1,000.00)	1.0000	25	20	1	8	0	0	0	0	1	6	1	0	0	0	1	7	0	0	0	0	1	6	1	0	0	0	1	3	0	0	0	0	1	7	0	0	0	0
IPI00013439	Transcription factor jun-B	T 255	100% (1,000.00)	1.0000	7	7	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	3	0	0	0	0	0	2	0	0	0
IPI00013743	Hypothetical protein BUD13	T 159	100% (1,000.00)	1.0000	8	11	1	1	0	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	2	1	1	1	0	0	1	1	1	0	0	0
IPI00015954	GTP-binding protein SAR1a	T 139	100% (44.28)	1.0000	2	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00016074	M-phase phosphoprotein 6	T 147	100% (115.45)	1.0000	2	4	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0
IPI00016570	Isoform 3 of Bromodomain-containing protein 8	T 124	100% (76.06)	1.0000	3	8	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	3	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0
IPI00016702	Rab6 GTPase activating protein, GAPCenA	T 924	100% (39.38)	1.0000	3	6	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	2	0	0	0
IPI00017450	Transcription initiation factor IIF alpha subunit	T 331	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00017746	BRCA1-associated RING domain protein 1	T 696	100% (1,000.00)	1.0000	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00018321	Isoform 1 of Histone-lysine N-methyltransferase, H3 lysine-9 specific 4	T 1197	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00019471	Insulin receptor substrate 1	T 991	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00019912	Peroxisomal multifunctional enzyme type 2	T 84	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00021175	Cell division cycle 2-related protein kinase 7	T 514	100% (58.15)	1.0000	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00021305	Cyclin-H	T 315	100% (57.14)	1.0000	5	7	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	2	0	0	0
IPI00022058	Isoform 1 of Development and differentiation-enhancing factor 2	T 900	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022058	Isoform 1 of Development and differentiation-enhancing factor 2	T 903	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022143	Isoform 1 of Protein FAM62A	T 1022	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00022145	Nuclear ubiquitous casein and cyclin-dependent kinases substrate	T 202	100% (1,000.00)	1.0000	4	7	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	1	0	0
IPI00022228	Vigilin	T 875	100% (1,000.00)	1.0000	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022790	Microfibrillar-associated protein 1	T 267	100% (106.75)	1.0000	18	13	1	1	2	1	0	0	1	2	2	1	0	0	1	2	2	2	0	0	0	1	2	1	0	0	0	2	2	0	0	0	1	2	2	0	0	0
IPI00022970	Nucleoprotein TPR	T 2005	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00023004	Eukaryotic translation initiation factor 1A, Y-chromosomal	T 117	100% (1,000.00)	1.0000	1	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0
IPI00023004	Eukaryotic translation initiation factor 1A, Y-chromosomal	T 119	100% (1,000.00)	1.0000	1	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0
IPI00023048	Elongation factor 1-delta	T 146	100% (1,000.00)	1.0000	13	10	0	0	0	3	1	0	0	0	0	2	2	0	0	0	0	3	2	0	0	0	1	3	1	0	0	0	0	3	0	0	0	0	0	2	0	0
IPI00023283	Isoform 2 of Titin	T 3189	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00024062	Band 4.1-like protein 1	T 580	100% (1,000.00)	1.0000	9	3	0	2	0	0	0	0	2	1	0	0	0	0	2	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00030131	thymopoietin isoform beta	T 74	100% (42.23)	1.0000	9	8	0	0	1	1	0	0	0	0	1	1	1	0	0	0	1	1	2	0	1	0	1	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0
IPI00031015	Histone RNA hairpin-binding protein	T 171	100% (1,000.00)	1.0000	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00033022	Isoform 1 of Dynamin-2	T 527	100% (65.44)	1.0000	2	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00045511	Mid-1-related chloride channel 1	T 482	100% (43.76)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00059242	Synapse-associated protein 1	T 248	100% (1,000.00)	1.0000	2	4	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0
IPI00059366	H2A histone family, member Y isoform 2	T 129	100% (1,000.00)	1.0000	5	4	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0
IPI00069084	Isoform 1 of Transformation/transcription domain-associated protein	T 209	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00084746	229 kDa protein	T 782	100% (1,000.00)	1.0000	3	3	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00102752	Isoform 1 of Putative RNA-binding protein 15	T 568	100% (60.36)	1.0000	7	6	1	1	0	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0
IPI00103090	Hypothetical protein LEO1	T 188	100% (1,000.00)	1.0000	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00103090	Hypothetical protein LEO1	T 629	100% (83.64)	1.0000	7	8	0	2	0	0	0	0	0	2	0	0	1	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0
IPI00103552	mucin 16	T 995	100% (1,000.00)	1.0000	11	5	0	0	0	0	0	3	0	0	0	0	0	3	1	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	2	
IPI00103756	Mid-1-related chloride channel 4	T 297	100% (43.76)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00103757	Mid-1-related chloride channel 3	T 361	100% (43.76)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00106847	Isoform GTBP-alt of DNA mismatch repair protein MSH6	T 553	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00145593	Nucleolar protein with MIF4G domain 1	T 287	100% (1,000.00)	1.0000	6	6	0	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0
IPI00148057	Isoform 2 of Bromodomain-containing protein 8	T 264	100% (76.06)	1.0000	3	8	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	3	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0
IPI00152658	Serine/threonine-protein kinase Nek7	T 299	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00154915	Isoform 1 of Partitioning-defective 3 homolog	T 1283	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00161085	Isoform 1 of Nucleolar protein 8	T 894	100% (1,000.00)	1.0000	5	5	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00163851	Isoform 1 of Eukaryotic translation initiation factor 2-alpha kinase 4	T 667	100% (41.67)	1.0000	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0
IPI00164861	KINESIN-13A1	T 4	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00166612	cardiomyopathy associated 5	T 2690	100% (58.53)	1.0000	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00167941	Midasin	T 4898	100% (1,000.00)	1.0000	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00168459	Isoform 2 of Pleckstrin homology-like domain family B member 2	T 550	100% (79.02)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00170791	Isoform 2 of InaD-like protein	T 1209	100% (103.92)	1.0000	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00171252	enhancer of zeste 2 isoform b	T 448	100% (92.92)	1.0000	3	4	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00175136	RNA binding motif protein 15B	T 532	100% (89.86)	1.0000	6	6	2	1	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00178150	Isoform 1 of Chromosome-associated kinesin KIF4A	T 1181	100% (61.26)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00179063	Isoform 4 of Partitioning-defective 3 homolog	T 1246	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00179953	Isoform 1 of Nuclear autoantigenic sperm protein	T 477	100% (1,000.00)	1.0000	16	15	1	5	0	0	0	0	1	3	0	0	0	0	2	4	0	0	0	0	2	3	0	0	0	0	1	4	0	0	0	0	2	3	0	0	0	0
IPI00181352	dynamin 2 isoform 4	T 523	100% (65.44)	1.0000	2	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00185919	Isoform 1 of La-related protein 1	T 526	100% (52.86)	1.0000	18	15	3	3	1	0	0	0	3	2	0	0	0	0	2	3	1	0	0	0	3	2	1	0	0	0	3	2	0	0	0	0	3	1	0	0	0	0
IPI00186028	Hypothetical protein DKFZp434A112	T 677	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00215743	Isoform 3 of Ribosome-binding protein 1	T 225	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00215888	Signal recognition particle 72 kDa protein	T 570	100% (39.59)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216230	Lamina-associated polypeptide 2 isoform alpha	T 73	100% (42.23)	1.0000	9	8	0	0	1	1	0	0	0	0	1	1	1	0	0	0	1	1	2	0	1	0	1	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0
IPI00216587	40S ribosomal protein S8	T 129	100% (1,000.00)	1.0000	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216654	Isoform Beta of Nucleolar phosphoprotein p130	T 617	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216654	Isoform Beta of Nucleolar phosphoprotein p130	T 620	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00216682	Calponin-3	T 195	100% (1,000.00)	1.0000	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00217340	KIBRA protein	T 1099	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00217467	Histone H1.4	T 17	100% (99.17)	1.0000	17	16	0	0	1	4	0	0	0	0	0	6	0	0	0	0	1	5	0	0	0	0	3	5	0	0	0	0	0	1	2	0	0	0	0	1	4	0	0	0	0	0
IPI00217468	Histone H1.5	T 137	100% (1,000.00)	1.0000	2	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00217468	Histone H1.5	T 154	100% (1,000.00)	1.0000	3	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218240	Wolf-Hirschhorn syndrome candidate 1 protein isoform 1	T 544	100% (99.23)	1.0000	7	8	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
IPI00218490	Isoform 2 of Kinesin-like protein KIF13A	T 4	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00218648	Isoform III of AT-rich interactive domain-containing protein 4A	T 1105	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218648	Isoform III of AT-rich interactive domain-containing protein 4A	T 1114	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218889	Isoform 2 of Dynamin-2	T 523	100% (65.44)	1.0000	2	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00219114	Isoform p135 of Dynactin-1	T 7	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220119	Isoform 1 of SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A cor	T 54	100% (52.05)	1.0000	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220581	Isoform 2 of Disks large-associated protein 4	T 915	100% (62.09)	1.0000	1	4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00220716	Isoform 2 of Putative RNA-binding protein 15	T 568	100% (60.36)	1.0000	7	6	1	1	0	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0
IPI00220717	Isoform 3 of Putative RNA-binding protein 15	T 568	100% (60.36)	1.0000	7	6	1	1	0	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0
IPI00232533	Eukaryotic translation initiation factor 1A, X-chromosomal	T 117	100% (1,000.00)	1.0000	1	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0
IPI00232533	Eukaryotic translation initiation factor 1A, X-chromosomal	T 119	100% (1,000.00)	1.0000	1	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0
IPI00253281	Isoform 2 of Epidermal growth factor receptor kinase substrate 8-like protein 1	T 60	100% (1,000.00)	1.0000	8	9	0	2	0	0	0	0	1	1	0	0	0	0	1	2	1	0	0	0	0	1	1	0	0	0	1	3	1	0	0	0	1	1	0	0	0	0	0	0	0	0
IPI00289584	RING finger protein 139	T 663	100% (104.11)	1.0000	2	4	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00290461	Eukaryotic translation initiation factor 3 subunit 1	T 109	100% (1,000.00)	1.0000	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00291032	spectrin domain with coiled-coils 1 NSP5b3b	T 664	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00291646	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1-like	T 871	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00291755	Isoform 1 of Nuclear pore membrane glycoprotein 210 precursor	T 1848	100% (1,000.00)	1.0000	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00292387	Isoform Alpha of Nucleolar phosphoprotein p130	T 607	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00292387	Isoform Alpha of Nucleolar phosphoprotein p130	T 610	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00294739	SAM domain and HD domain-containing protein 1	T 592	100% (51.55)	1.0000	3	5	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00294742	HDCMA18P protein	T 338	100% (55.13)	1.0000	3	9	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0	0	1	1	0	0	0	0	0	0	0
IPI00295425	BC282485_1	T 285	100% (74.47)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00297178	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 16	T 451	100% (49.67)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
IPI00297900	Probable ATP-dependent RNA helicase DDX10	T 577	100% (1,000.00)	1.0000	2	4	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00298696	Treacle protein	T 837	100% (1,000.00)	1.0000	2	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00299254	Eukaryotic translation initiation factor 5B	T 301	100% (45.01)	1.0000	4	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00299507	Condensin complex subunit 2	T 49	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00299824	Isoform 1 of Connector enhancer of kinase suppressor of ras 1	T 289	100% (1,000.00)	1.0000	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00299824	Isoform 1 of Connector enhancer of kinase suppressor of ras 1	T 293	100% (1,000.00)	1.0000	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00301250	Isoform 1 of Epidermal growth factor receptor kinase substrate 8-like protein 1	T 187	100% (1,000.00)	1.0000	8	9	0	2	0	0	0	0	1	1	0	0	0	0	1	2	1	0	0	0	0	1	1	0	0	0	1	3	1	0	0	0	1	1	0	0	0	0	0	0	0	0
IPI00301595	Isoform 2 of Partitioning-defective 3 homolog	T 1280	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
IPI00301597	Par-3 partitioning defective 3 homolog	T 1223	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
IPI00302149	Isoform 1 of Polyhomeotic-like protein 3	T 609	100% (84.36)	1.0000	10	9	1	2	1	0	0	0	1	1	0	0	0	0	2	2	0	0	0	0	1	2	1	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	0	0	0	0
IPI00302829	Retinoblastoma-associated protein	T 373	100% (81.79)	1.0000	8	6	2	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0
IPI00304171	H2A histone family, member Y isoform 3	T 129	100% (1,000.00)	1.0000	5	4	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0
IPI00306929	Isoform 1 of Myosin-18B	T 885	100% (38.03)	1.0000	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00306933	Isoform Short of Myosin-9B	T 1271	100% (49.34)	1.0000	4	4	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00307592	ATP-binding cassette, sub-family A, member 2 isoform a	T 2413	100% (47.82)	1.0000	4	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00328089	Kappa B and V(D)J recombination signal sequences binding protein	T 2037	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
IPI00328293	SerineЖ/arginine repetitive matrix 1	T 220	100% (92.75)	1.0000	19	17	5	2	0	0	0	0	3	2	0	0	0	0	3	4	0	0	0	0	5	2	0	0	0	0	3	2	0	0	0	0	3	2	0	0	0	0	0	0	0	0
IPI00328293	SerineЖ/arginine repetitive matrix 1	T 401	100% (1,000.00)	1.0000	29	30	6	5	2	0	0	0	5	2	1	0	0	0	4	4	0	0	0	0	4	3	0	0	0	0	5	4	2	0	0	0	4	6	2	0	0	0	0	0	0	0
IPI00328293	SerineЖ/arginine repetitive matrix 1	T 581	100% (1,000.00)	1.0000	5	4	2	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
IPI00328293	SerineЖ/arginine repetitive matrix 1	T 583	100% (1,000.00)	1.0000	5	4	2	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
IPI00328293	SerineЖ/arginine repetitive matrix 1	T 590	100% (1,000.00)	1.0000	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00328293	SerineЖ/arginine repetitive matrix 1	T 623	100% (1,000.00)	1.0000	8	9	1	1	0	0	0	0	1	1	0	0	0	0	3	1	0	0	0	0	1	1	0	0	0	0	2	2	0	0	0	0	2	1	0	0	0	0	0	0	0	0
IPI00328293	SerineЖ/arginine repetitive matrix 1	T 881	100% (1,000.00)	1.0000	12	13	2	2	0	0	0	0	2	1	0	2	0	0	1	1	1	0	0	0	2	2	0	0	0	0	2	2	0	1	0	0	2	2	0	0	0	0	0	0	0	0
IPI00328306	Zinc finger CCCH-type domain-containing protein 11A	T 321	100% (40.57)	1.0000	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00328929	Conserved nuclear protein NHN1	T 162	100% (1,000.00)	1.0000	6	5	2	2	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00329005	Isoform 2 of Aftiphilin	T 673	100% (53.93)	1.0000	4	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	T 134	100% (108.09)	1.0000	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	T 263	100% (1,000.00)	1.0000	22	16	7	1	0	0	0	0	6	0	0	0	0	0	8	0	0	0	0	0	6	0	0	0	0	0	5	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0
IPI00332499	nuclear autoantigenic sperm protein isoform 1	T 479	100% (1,000.00)	1.0000	16	15	1	5	0	0	0	0	1	3	0	0	0	0	2	4	0	0	0	0	2	3	0	0	0	0	1	4	0	0	0	0	2	3	0	0	0	0	0	0	0	0
IPI00334126	Ral GEF with PH domain and SH3 binding motif 2, isoform 2	T 326	100% (67.73)	1.0000	4	1	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00336047	Isoform Long of Myosin-9B	T 1271	100% (49.34)	1.0000	4	4	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00376787	enhancer of zeste 2 isoform a	T 492	100% (92.92)	1.0000	3	4	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00376933	HLA-B associated transcript-2 isoform b	T 770	100% (1,000.00)	1.0000	3	3	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00383694	D13S824E locus	T 142	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00385729	OTTHUMP00000022614	T 599	100% (1,000.00)	1.0000	13	13	3	2	0	0	0	0	2	2	0	0	0	0	3	1	0	0	0	0	1	3	0	0	0	0	1	3	0	0	0	0	2	3	0	0	0	0	0	0	0	0
IPI00394732	Isoform 2 of Transformation/transcription domain-associated protein	T 209	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00396071	Isoform 1 of Retinoid X receptor-interacting protein 110	T 80	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																				SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00396547	Mid-1-related chloride channel 1	T 432	100% (43.76)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00410259	Isoform 1 of Pleckstrin homology-like domain family B member 2	T 550	100% (79.02)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00411461	disks large-associated protein 4 isoform b	T 376	100% (62.09)	1.0000	1	4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00411635	KIAA0802 protein	T 1052	100% (1,000.00)	1.0000	7	10	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	1	0	0	0	0
IPI00412415	Isoform 1 of Bromodomain adjacent to zinc finger domain protein 1A	T 731	100% (79.33)	1.0000	22	17	6	1	0	0	0	0	6	1	0	0	0	0	7	1	0	0	0	0	5	1	0	0	0	0	5	1	0	0	0	0	5	0	0	0	0	0
IPI00412415	Isoform 1 of Bromodomain adjacent to zinc finger domain protein 1A	T 771	100% (1,000.00)	1.0000	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00414303	ATP-binding cassette, sub-family A, member 2 isoform b	T 2443	100% (47.82)	1.0000	4	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00414676	Heat shock protein HSP 90-beta	T 615	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00429547	Isoform 4 of Aftiphilin	T 673	100% (53.93)	1.0000	4	2	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00434952	Isoform 5 of Aftiphilin	T 673	100% (53.93)	1.0000	4	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00436632	Isoform 1 of Nipped-B-like protein	T 695	100% (1,000.00)	1.0000	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00436632	Isoform 1 of Nipped-B-like protein	T 696	100% (1,000.00)	1.0000	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00451417	Isoform 2 of Connector enhancer of kinase suppressor of ras 1	T 282	100% (1,000.00)	1.0000	2	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00451417	Isoform 2 of Connector enhancer of kinase suppressor of ras 1	T 286	100% (1,000.00)	1.0000	2	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456685	Isoform 2 of Eukaryotic translation initiation factor 2-alpha kinase 4	T 667	100% (41.67)	1.0000	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0
IPI00456887	Scaffold attachment factor A2	T 165	100% (1,000.00)	1.0000	4	8	0	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	2	3	0	0	0	0	2	0	0	0	0	0
IPI00477431	98 kDa protein	T 527	100% (65.44)	1.0000	2	2	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00477436	hypothetical protein LOC55684	T 556	100% (1,000.00)	1.0000	13	13	3	2	0	0	0	0	2	2	0	0	0	0	3	1	0	0	0	0	1	3	0	0	0	0	1	3	0	0	0	0	2	3	0	0	0	0
IPI00479145	Keratin, type I cytoskeletal 19	T 323	100% (38.03)	1.0000	3	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00480054	Isoform 3 of Nucleolar protein 8	T 762	100% (1,000.00)	1.0000	5	5	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00514396	OTTHUMP00000022609	T 393	100% (1,000.00)	1.0000	13	13	3	2	0	0	0	0	2	2	0	0	0	0	3	1	0	0	0	0	1	3	0	0	0	0	1	3	0	0	0	0	2	3	0	0	0	0
IPI00514550	dynamin 2 isoform 2	T 527	100% (65.44)	1.0000	2	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00514832	Tripartite motif protein 56	T 442	100% (1,000.00)	1.0000	3	1	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00550746	Nuclear migration protein nudC	T 108	100% (1,000.00)	1.0000	3	3	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00550746	Nuclear migration protein nudC	T 145	100% (1,000.00)	1.0000	5	5	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	1	1	0
IPI00552073	Putative pre-mRNA-splicing factor ATP-dependent RNA helicase DHX16	T 451	100% (49.67)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00554475	Isoform 3 of Aftiphilin	T 673	100% (53.93)	1.0000	4	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00554740	Isoform 1 of Aftiphilin	T 673	100% (53.93)	1.0000	4	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00555610	313 kDa protein	T 243	100% (1,000.00)	1.0000	10	19	2	1	1	0	0	0	1	1	1	0	0	0	1	0	1	1	0	0	4	2	1	1	0	0	2	2	0	0	1	0	3	2	1	0	0	0
IPI00555610	313 kDa protein	T 1837	100% (1,000.00)	1.0000	2	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00604517	74 kDa protein	T 98	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00640645	OTTHUMP00000016072	T 4	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00641132	120 kDa protein	T 455	100% (49.67)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00641181	MARCKS-related protein	T 84	100% (1,000.00)	1.0000	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641181	MARCKS-related protein	T 147	100% (37.81)	1.0000	2	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00642542	DJ639P13.2.2	T 154	100% (1,000.00)	1.0000	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00642673	ATP-binding cassette, sub-family F (GCN20), member 1	T 109	100% (1,000.00)	1.0000	25	24	2	6	0	0	0	0	2	5	0	0	0	0	2	8	0	0	0	0	3	7	0	0	0	0	0	6	0	0	0	0	1	7	0	0	0	0
IPI00642971	eukaryotic translation elongation factor 1 delta isoform 1	T 513	100% (1,000.00)	1.0000	13	10	0	0	0	3	1	0	0	0	0	2	2	0	0	0	0	3	2	0	0	0	1	3	1	0	0	0	0	3	0	0	0	0	0	2	0	0
IPI00643352	nucleoporin 214kDa	T 670	100% (1,000.00)	1.0000	3	4	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
IPI00643700	Isoform 4 of Nucleolar protein 8	T 850	100% (1,000.00)	1.0000	5	5	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00644651	EPB41L1 protein	T 580	100% (1,000.00)	1.0000	9	3	0	2	0	0	0	0	2	1	0	0	0	0	2	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00644990	Ral GEF with PH domain and SH3 binding motif 2	T 291	100% (67.73)	1.0000	4	1	0	0	0	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00645201	Ribosomal protein S8	T 110	100% (1,000.00)	1.0000	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00645814	KIAA1187 protein	T 97	100% (1,000.00)	1.0000	4	10	0	1	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	2	1	1	1	0	0	1	2	0	1	0	0
IPI00646058	103 kDa protein	T 224	100% (1,000.00)	1.0000	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00651629	spectrin domain with coiled-coils 1 NSP5a3b	T 583	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00654555	NOL1 protein	T 228	100% (38.16)	1.0000	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00654605	Hypothetical protein RPRC1	T 97	100% (1,000.00)	1.0000	4	10	0	1	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	2	1	1	1	0	0	1	2	0	1	0	0
IPI00654770	OTTHUMP00000030864	T 208	100% (62.09)	1.0000	1	4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00657763	Isoform 3 of Pleckstrin homology-like domain family B member 2	T 577	100% (79.02)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00658000	insulin-like growth factor 2 mRNA binding protein 3	T 528	100% (1,000.00)	1.0000	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00658100	Isoform 2 of Polyhomeotic-like protein 3	T 590	100% (84.36)	1.0000	10	9	1	2	1	0	0	0	1	1	0	0	0	0	2	2	0	0	0	0	1	2	1	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0
IPI00718792	LOC387680 protein (Fragment)	T 225	100% (1,000.00)	1.0000	3	3	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00741728	PREDICTED: similar to heterogeneous nuclear ribonucleoprotein U	T 322	100% (1,000.00)	1.0000	4	8	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	2	3	0	0	0	0	0	2	0	0	0	0
IPI00742934	HLA-B associated transcript-2 isoform a	T 782	100% (1,000.00)	1.0000	3	3	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00743026	179 kDa protein	T 732	100% (79.33)	1.0000	22	17	6	1	0	0	0	0	6	1	0	0	0	0	7	1	0	0	0	0	5	1	0	0	0	0	5	1	0	0	0	0	5	0	0	0	0	0
IPI00743026	179 kDa protein	T 772	100% (1,000.00)	1.0000	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00743031	Retinoid x ReceptoR inteRacting pRotein	T 80	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00743778	76 kDa protein	T 308	100% (84.11)	1.0000	13	14	0	0	3	0	0	0	0	0	4	0	0	0	1	0	4	1	0	0	0	0	3	1	0	0	0	0	4	0	0	1	0	0	4	0	1	0
IPI00744148	Isoform 1 of Core histone macro-H2A.1	T 128	100% (1,000.00)	1.0000	5	4	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0
IPI00744288	Isoform 5 of C-jun-amino-terminal kinase-interacting protein 4	T 217	100% (1,000.00)	1.0000	7	8	1	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0
IPI00744288	Isoform 5 of C-jun-amino-terminal kinase-interacting protein 4	T 226	100% (38.16)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00745155	80 kDa protein	T 80	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00745518	Microtubule-associated protein 4 isoform 1 variant (Fragment)	T 549	100% (61.47)	1.0000	28	26	4	3	2	0	0	0	4	4	2	0	0	0	5	3	1	0	0	0	6	3	1	0	0	0	4	4	1	0	0	0	4	3	0	0	0	0
IPI00745518	Microtubule-associated protein 4 isoform 1 variant (Fragment)	T 599	100% (41.55)	1.0000	7	12	1	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	2	2	0	0	0	0	4	1	0	0	0	0
IPI00746204	PARF	T 599	100% (1,000.00)	1.0000	13	13	3	2	0	0	0	0	2	2	0	0	0	0	3	1	0	0	0	0	1	3	0	0	0	0	1	3	0	0	0	0	2	3	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00746216	64 kDa protein	T 530	100% (1,000.00)	1.0000	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00747047	Treacle major isoform	T 914	100% (1,000.00)	1.0000	2	1	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748715	septin 9	T 124	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	T 1003	100% (85.85)	1.0000	10	4	2	0	0	0	0	0	2	1	0	0	0	0	4	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	T 2104	100% (84.11)	1.0000	7	5	2	0	0	0	0	0	4	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	T 2409	100% (125.59)	1.0000	3	3	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00748953	110 kDa protein	T 679	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00749377	199 kDa protein	T 4	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00759546	Isoform 5 of Afadin	T 711	100% (1,000.00)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00759630	Isoform 2 of Nucleolar protein 8	T 820	100% (1,000.00)	1.0000	5	5	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00009328	Probable ATP-dependent RNA helicase DDX48	T 162	100% (36.50)	1.0000	2	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00023283	Isoform 2 of Titin	T 5994	100% (36.85)	1.0000	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022145	Nuclear ubiquitous casein and cyclin-dependent kinases substrate	T 179	100% (34.15)	1.0000	4	7	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	2	0	0	0
IPI00101049	NMD3 homolog	T 470	100% (35.11)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00215805	Exocyst complex component 2	T 518	100% (38.17)	1.0000	7	12	0	0	0	0	0	1	0	1	1	0	1	1	0	0	1	0	0	1	0	1	1	0	1	0	0	1	1	1	1	1	0	1	1	1	0	1
IPI00425560	Isoform 1 of LAP4 protein	T 689	100% (67.15)	1.0000	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00425566	Isoform 4 of LAP4 protein	T 689	100% (67.15)	1.0000	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00654555	NOL1 protein	T 218	100% (68.00)	1.0000	6	3	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00023283	Isoform 2 of Titin	T 16859	100% (33.21)	1.0000	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	1	0	0	0
IPI00178352	Isoform 1 of Filamin-C	T 2139	100% (36.07)	1.0000	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413958	Isoform 2 of Filamin-C	T 2106	100% (36.07)	1.0000	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00072534	smooth muscle cell associated protein-1 isoform 2	T 15	100% (63.65)	1.0000	4	5	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0
IPI00220317	DNA polymerase alpha catalytic subunit	T 174	100% (63.65)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00647655	166 kDa protein	T 180	100% (63.65)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	T 1434	100% (31.27)	1.0000	5	3	1	1	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	T 1531	100% (31.27)	1.0000	3	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00159652	PREDICTED: hypothetical protein LOC23045 isoform 1	T 1519	100% (30.83)	1.0000	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00739607	PREDICTED: similar to CG32045-PB, isoform B isoform 5	T 1519	100% (30.83)	1.0000	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00438170	Isoform 1 of Sorting nexin-12	T 9	100% (34.69)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00438171	Isoform 2 of Sorting nexin-12	T 9	100% (34.69)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00743822	20 kDa protein	T 9	100% (34.69)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022904	50 kDa protein	T 390	100% (62.78)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00103654	Hypothetical protein	T 314	100% (62.78)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746062	PPP4R2 protein	T 257	100% (62.78)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00012429	Isoform 2 of Protein C9orf5	T 36	100% (30.10)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00021728	Eukaryotic translation initiation factor 2 subunit 2	T 111	100% (30.10)	1.0000	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00607576	Isoform 1 of Protein C9orf5	T 36	100% (30.10)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00607692	Isoform 4 of Protein C9orf5	T 36	100% (30.10)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00438170	Isoform 1 of Sorting nexin-12	T 4	100% (33.81)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00438171	Isoform 2 of Sorting nexin-12	T 4	100% (33.81)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00743822	20 kDa protein	T 4	100% (33.81)	1.0000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00176398	Isoform 1 of SLIT and NTRK-like protein 6 precursor	T 411	100% (29.73)	1.0000	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00453473	Histone H4	T 80	100% (40.35)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00018037	Surfeit locus protein 2	T 190	100% (61.30)	1.0000	6	6	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0
IPI00419264	surfeit 2	T 190	100% (61.30)	1.0000	6	6	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0
IPI00026689	Hypothetical protein DKFZp686L20222	T 14	100% (45.16)	1.0000	4	6	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	1	0	0	0	0	0	2	0	0
IPI00031681	Cell division protein kinase 2	T 14	100% (45.16)	1.0000	3	6	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	2	0	0	0	0	1	0	0	0	0	0	2	0	0
IPI00337315	Isoform 1 of Retinoblastoma-binding protein 6	T 984	100% (58.09)	1.0000	3	4	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00376283	Isoform 2 of Retinoblastoma-binding protein 6	T 950	100% (58.09)	1.0000	3	4	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00382585	182 kDa protein	T 807	100% (58.09)	1.0000	3	4	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00004233	Isoform Long of Antigen KI-67	T 2085	100% (63.65)	1.0000	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00301293	antigen identified by monoclonal antibody Ki-67	T 2085	100% (63.65)	1.0000	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00299608	Isoform 1 of 26S proteasome non-ATPase regulatory subunit 1	T 311	100% (59.88)	1.0000	5	6	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00006196	Isoform 2 of Nuclear mitotic apparatus protein 1	T 1986	100% (56.34)	1.0000	7	16	0	0	0	1	0	0	1	0	0	1	0	0	2	0	0	1	1	0	3	0	0	0	0	0	2	0	0	3	0	0	3	0	0	4	1	0
IPI00292771	Isoform 1 of Nuclear mitotic apparatus protein 1	T 2000	100% (56.34)	1.0000	7	16	0	0	0	1	0	0	1	0	0	1	0	0	2	0	0	1	1	0	3	0	0	0	0	0	2	0	0	3	0	0	3	0	0	4	1	0
IPI00307733	huntingtin interacting protein B	T 1350	100% (59.30)	1.0000	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00477535	DNA-repair protein complementing XP-G cells	T 106	100% (27.96)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0
IPI00023283	Isoform 2 of Titin	T 14940	100% (58.66)	1.0000	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00161085	Isoform 1 of Nucleolar protein 8	T 387	100% (40.59)	1.0000	8	5	2	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0
IPI00480054	Isoform 3 of Nucleolar protein 8	T 255	100% (40.59)	1.0000	8	5	2	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0
IPI00643700	Isoform 4 of Nucleolar protein 8	T 381	100% (40.59)	1.0000	8	5	2	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0
IPI00759630	Isoform 2 of Nucleolar protein 8	T 313	100% (40.59)	1.0000	8	5	2	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0
IPI00299526	Polycomb protein SUZ12	T 208	100% (27.12)	1.0000	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00472779	Ankyrin-3	T 3448	100% (56.72)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00478210	ankyrin 3 isoform 1	T 3448	100% (56.72)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00304596	Non-POU domain-containing octamer-binding protein	T 450	100% (26.54)	1.0000	3	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00436632	Isoform 1 of Nipped-B-like protein	T 2667	100% (26.57)	1.0000	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00735918	PREDICTED: similar to fat3	T 2599	100% (28.73)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00018274	Isoform 1 of Epidermal growth factor receptor precursor	T 693	100% (26.31)	1.0000	6	12	1	1	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	0	0	0	0
IPI00513791	dedicator of cytokinesis 7	T 1952	100% (26.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00024062	Band 4.1-like protein 1	T 550	100% (54.67)	1.0000	5	1	2	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00644651	EPB41L1 protein	T 550	100% (54.67)	1.0000	5	1	2	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00028888	Isoform 1 of Heterogeneous nuclear ribonucleoprotein D0	T 193	100% (25.67)	1.0000	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00220684	Isoform 3 of Heterogeneous nuclear ribonucleoprotein D0	T 193	100% (25.67)	1.0000	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00002804	Serine/threonine-protein kinase N2	T 958	100% (53.63)	1.0000	10	11	1	1	1	0	0	0	1	2	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	2	1	0	0	0	2	1	1	0	0	0	0	0	0	0
IPI00514221	112 kDa protein	T 958	100% (53.63)	1.0000	10	11	1	1	1	0	0	0	1	2	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	2	1	0	0	0	2	1	1	0	0	0	0	0	0	0
IPI00745366	PKN2 protein	T 497	100% (53.63)	1.0000	10	11	1	1	1	0	0	0	1	2	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	2	1	0	0	0	2	1	1	0	0	0	0	0	0	0
IPI00735918	PREDICTED: similar to fat3	T 2598	100% (26.06)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00011069	Isoform 2 of Uracil-DNA glycosylase	T 60	100% (53.23)	1.0000	9	9	0	0	0	5	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	0
IPI00017297	Matrin-3	T 639	100% (25.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00104050	Thyroid hormone receptor-associated protein 3	T 874	100% (24.44)	1.0000	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00479760	AP2 associated kinase 1	T 606	100% (24.44)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00176532	Isoform 1 of Junctophilin-2	T 490	100% (51.38)	1.0000	17	18	0	3	2	1	0	0	0	2	2	1	0	0	1	2	2	1	0	0	0	2	2	0	0	0	1	3	2	1	0	0	1	3	2	1	0	0	0	0	0	0
IPI00016639	Protein kinase C iota type	T 555	100% (51.18)	1.0000	8	9	1	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	2	2	0	0	0	0	0	2	0	0	0	0	2	1	0	0	0	0	0	0	0	0
IPI00157836	IQ motif and WD repeats 1 isoform a	T 674	100% (32.49)	1.0000	3	4	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
IPI00164246	MSTP055	T 731	100% (32.49)	1.0000	3	4	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
IPI00290516	IQ motif and WD repeats 1 isoform b	T 654	100% (32.49)	1.0000	3	4	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
IPI00218240	Wolf-Hirschhorn syndrome candidate 1 protein isoform 1	T 983	100% (23.78)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00156282	G protein pathway suppressor 1 isoform 2	T 479	100% (49.79)	1.0000	4	4	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0
IPI00414289	G protein pathway suppressor 1 isoform 1	T 515	100% (49.79)	1.0000	4	4	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0
IPI00604590	NME2 protein	T 119	100% (46.62)	1.0000	4	3	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0
IPI00549521	Isoform 1 of Choline transporter-like protein 2	T 14	100% (46.35)	1.0000	18	22	2	2	3	0	0	0	2	2	2	0	0	0	1	2	2	0	0	0	1	2	3	0	0	0	2	3	2	1	0	0	1	2	3	0	1	1	0	0	0	0
IPI00217975	Lamin-B1	T 574	100% (46.24)	1.0000	4	6	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00432363	Microtubule-actin crosslinking factor 1, isoform 4	T 455	100% (22.88)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00478739	microfilament and actin filament cross-linker protein isoform b	T 455	100% (22.88)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514468	670 kDa protein	T 455	100% (22.88)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00173461	Junctophilin-1	T 448	100% (30.63)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00013891	Isoform Long of Transformer-2 protein homolog	T 202	100% (45.01)	1.0000	30	31	1	1	1	4	1	1	1	0	1	4	1	1	1	0	1	9	1	1	0	0	4	7	1	1	1	0	2	7	0	1	0	1	2	3	0	1	0	1	2	0
IPI00006079	Isoform 1 of Bcl-2-associated transcription factor 1	T 402	100% (44.44)	1.0000	11	11	2	1	0	0	0	0	2	1	1	0	0	0	1	2	0	0	1	0	1	1	2	0	1	0	2	1	0	0	0	0	2	1	0	0	0	0	0	0	0	0
IPI00413671	Isoform 2 of Bcl-2-associated transcription factor 1	T 400	100% (44.44)	1.0000	11	11	2	1	0	0	0	0	2	1	1	0	0	0	1	2	0	0	1	0	1	1	2	0	1	0	2	1	0	0	0	0	2	1	0	0	0	0	0	0	0	0
IPI00413672	Isoform 3 of Bcl-2-associated transcription factor 1	T 400	100% (44.44)	1.0000	11	11	2	1	0	0	0	0	2	1	1	0	0	0	1	2	0	0	1	0	1	1	2	0	1	0	2	1	0	0	0	0	2	1	0	0	0	0	0	0	0	0
IPI00219301	Myristoylated alanine-rich C-kinase substrate	T 142	100% (49.79)	1.0000	3	8	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	4	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00006298	Isoform 1 of Peptidyl-prolyl cis-trans isomerase G	T 358	100% (22.01)	1.0000	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00185027	Isoform 1 of Arginine-glutamic acid dipeptide repeats protein	T 599	100% (21.94)	1.0000	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00144293	Isoform 1 of YTH domain-containing protein 1	T 266	100% (21.68)	1.0000	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00337530	Isoform 1 of RalBP1-associated Eps domain-containing protein 1	T 407	100% (22.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00337532	Isoform 3 of RalBP1-associated Eps domain-containing protein 1	T 407	100% (22.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00154590	MKI67 FHA domain-interacting nucleolar phosphoprotein	T 223	100% (42.60)	0.9999	2	6	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	0
IPI00009771	Lamin-B2	T 34	100% (30.64)	0.9999	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0
IPI00169434	Grb10 interacting GYF protein 2	T 382	100% (45.01)	0.9999	15	14	3	2	0	0	0	0	4	2	0	0	0	0	3	0	1	0	0	0	3	2	0	0	0	0	3	1	0	0	0	0	3	1	1	0	0	0	0	0	0	0
IPI00384541	Novel protein	T 723	100% (46.51)	0.9999	2	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00639879	Novel protein	T 697	100% (46.51)	0.9999	2	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00013949	Small glutamine-rich tetratricopeptide repeat-containing protein A	T 81	100% (41.57)	0.9999	3	3	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00158615	Isoform 1 of THO complex subunit 2	T 1208	100% (31.27)	0.9999	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00031076	Cyclin-C	T 126	100% (43.88)	0.9999	4	11	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	1	1	1	1	0	1	1	0	1	0	1	0	1	0	1	1	0	1	1	0
IPI00554688	cyclin C isoform b	T 21	100% (43.88)	0.9999	4	11	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	1	1	1	1	0	1	1	0	1	0	1	0	1	0	1	1	0	1	1	0
IPI00290684	Bifunctional polynucleotide phosphatase/kinase	T 118	100% (46.35)	0.9999	10	17	0	0	2	1	0	0	0	0	1	1	0	0	0	0	4	1	0	0	0	0	3	1	0	0	0	1	4	1	0	0	0	1	5	1	0	0	0	1	5	0
IPI00644522	PNKP protein	T 79	100% (46.35)	0.9999	10	17	0	0	2	1	0	0	0	0	1	1	0	0	0	0	4	1	0	0	0	0	3	1	0	0	0	1	4	1	0	0	0	1	5	1	0	0	0	1	5	0
IPI00160348	claspin	T 1287	100% (20.08)	0.9999	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
IPI00744511	CLSPN protein	T 1223	100% (20.08)	0.9999	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
IPI00748041	Claspin homolog	T 1289	100% (20.08)	0.9999	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
IPI00465128	Isoform 1 of Large proline-rich protein BAT3	T 1061	100% (38.41)	0.9999	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00513728	HLA-B associated transcript 3	T 1083	100% (38.41)	0.9999	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00640922	Isoform 2 of Large proline-rich protein BAT3	T 1047	100% (38.41)	0.9999	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00100106	resistance to inhibitors of cholinesterase 8 homolog A	T 447	100% (44.28)	0.9999	5	11	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0	0	4	0	0	0	0	0	3	0	0	0	0	0	0	0
IPI00005578	EH-domain-containing protein 4	T 25	100% (19.56)	0.9999	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00735331	PREDICTED: AF-1 specific protein phosphatase isoform 5	T 1084	100% (19.37)	0.9999	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00739012	PREDICTED: AF-1 specific protein phosphatase isoform 7	T 1084	100% (19.37)	0.9999	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00741037	PREDICTED: AF-1 specific protein phosphatase isoform 3	T 1084	100% (19.37)	0.9999	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00741376	PREDICTED: AF-1 specific protein phosphatase isoform 2	T 1084	100% (19.37)	0.9999	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00337736	Isoform 2 of Kinectin	T 153	100% (38.72)	0.9999	17	16	3	0	0	3	1	0	2	0	0	1	1	0	2	0	0	3	1	0	2	1	0	2	0	0	2	0	0	2	1	0	1	1	0	3	1	0	0	0	0	0
IPI00002478	Isoform B of Endothelin-converting enzyme 1	T 25	100% (43.47)	0.9999	5	6	0	1	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00216760	Isoform C of Endothelin-converting enzyme 1	T 9	100% (43.47)	0.9999	5	6	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0
IPI00216762	Isoform D of Endothelin-converting enzyme 1	T 22	100% (43.47)	0.9999	5	6	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0
IPI00150057	Isoform 2 of SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily C me	T 308	100% (27.16)	0.9999	5	6	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0
IPI00216047	Isoform 1 of SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily C me	T 308	100% (27.16)	0.9999	5	6	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0
IPI00026089	Splicing factor 3B subunit 1	T 326	100% (38.03)	0.9998	3	2	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00453473	Histone H4	T 82	100% (18.98)	0.9998	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00419979	p21-activated kinase 2	T 169	100% (40.65)	0.9998	6	6	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	2	0	0	0	0
IPI00008200	Isoform 1 of YEATS domain-containing protein 2	T 987	100% (26.31)	0.9998	4	5	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	1	0	0	0	0	1
IPI00216219	Isoform Long of Tight junction protein ZO-1	T 868	100% (47.05)	0.9998	2	4	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00013214	DNA replication licensing factor MCM3	T 722	100% (43.00)	0.9998	13	12	1	3	1	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	3	0	0	0	0	3	0	0	0	0	1	3	0	0	0	0
IPI00644591	hypothetical protein LOC64423 isoform 2	T 646	100% (36.56)	0.9998	8	9	2	1	0	0	0	0	1	2	0	0	1	0	0	1	0	0	0	0	1	2	0	0	1	0	1	0	0	0	0	1	2	0	0	1	0
IPI00017648	Lactase-phlorizin hydrolase precursor	T 849	100% (41.77)	0.9998	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00604789	lactase-phlorizin hydrolase preproprotein	T 849	100% (41.77)	0.9998	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00030408	M-phase phosphoprotein 8	T 385	100% (24.03)	0.9998	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00028122	Isoform 1 of PC4 and SFRS1-interacting protein	T 122	100% (39.93)	0.9998	17	16	1	2	2	1	0	0	1	1	4	2	0	0	0	1	0	2	0	0	0	2	3	3	0	0	0	1	1	1	0	0	0	1	2	2	0	0
IPI00419791	hypothetical protein LOC65117 isoform a	T 16	100% (18.42)	0.9998	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00179473	Isoform 1 of Sequestosome-1	T 269	100% (42.22)	0.9998	8	12	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	2	0	0	0	1	2	2	0	0	0	1	2	1	0	0	0	1	2	0	0	0
IPI00651643	Isoform 2 of Sequestosome-1	T 269	100% (42.22)	0.9998	8	12	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	2	0	0	0	1	2	2	0	0	0	1	2	1	0	0	0	1	2	0	0	0
IPI00289344	Isoform 1 of Nuclear receptor corepressor 1	T 1361	100% (18.00)	0.9997	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00007411	A-kinase anchor protein 11	T 1100	100% (38.16)	0.9997	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00161614	A-kinase anchor protein 11 isoform 2	T 1100	100% (38.16)	0.9997	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00059242	Synapse-associated protein 1	T 82	100% (24.63)	0.9997	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00171273	Isoform A of Myotubularin-related protein 3	T 731	100% (17.14)	0.9996	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00171274	Isoform C of Myotubularin-related protein 3	T 731	100% (17.14)	0.9996	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00185018	Isoform B of Myotubularin-related protein 3	T 731	100% (17.14)	0.9996	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00021320	Bin3, bicoid-interacting 3	T 213	100% (33.81)	0.9996	4	3	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
IPI00219841	DNA ligase 1	T 195	100% (36.05)	0.9996	8	10	1	0	0	0	0	0	1	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	1	2	0	0	0	0	1	2	0	0	0	0
IPI00290684	Bifunctional polynucleotide phosphatase/kinase	T 122	100% (36.56)	0.9996	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0
IPI00644522	PNKP protein	T 83	100% (36.56)	0.9996	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00031241	golgi reassembly stacking protein 2	T 415	100% (38.22)	0.9995	4	5	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0
IPI00743931	Isoform 1 of Golgi reassembly stacking protein 2	T 414	100% (38.22)	0.9995	4	5	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0
IPI00019835	Isoform 1 of Bcl-2-related proline-rich protein	T 117	100% (33.41)	0.9995	2	4	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00304589	182 kDa tankyrase 1-binding protein	T 131	100% (38.19)	0.9995	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00003842	Isoform 1 of Microtubule-associated protein 2	T 1649	100% (32.97)	0.9995	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010728	203 kDa protein	T 1649	100% (32.97)	0.9995	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00472094	Isoform 3 of Microtubule-associated protein 2	T 1645	100% (32.97)	0.9995	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00045914	Msx2-interacting protein	T 1619	100% (32.47)	0.9994	2	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00291930	Isoform 1 of Epsin-4	T 308	100% (38.16)	0.9994	1	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00334190	Stomatin-like protein 2	T 327	100% (38.16)	0.9994	3	3	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0
IPI00397519	Isoform 2 of Epsin-4	T 290	100% (38.16)	0.9994	1	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00607645	Sin3 histone deacetylase corepressor complex component SDS3	T 49	100% (16.81)	0.9994	6	4	0	0	0	2	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00010700	Isoform 1 of Large proline-rich protein BAT2	T 610	100% (15.92)	0.9993	2	3	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00084746	229 kDa protein	T 610	100% (15.92)	0.9993	2	3	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00376933	HLA-B associated transcript-2 isoform b	T 598	100% (15.92)	0.9993	2	3	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00742934	HLA-B associated transcript-2 isoform a	T 610	100% (15.92)	0.9993	2	3	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00004970	Small subunit processome component 20 homolog	T 1741	100% (37.82)	0.9993	6	6	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00738219	PREDICTED: similar to Down-regulated in metastasis protein	T 1741	100% (37.82)	0.9993	6	6	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0
IPI00010368	Kinesin-like protein KIF2	T 538	100% (31.27)	0.9993	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00295004	Isoform 1 of Alsin	T 644	100% (24.93)	0.9992	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00302917	AT rich interactive domain 4B isoform 2	T 707	100% (30.83)	0.9992	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
IPI00328828	AT rich interactive domain 4B isoform 1	T 793	100% (30.83)	0.9992	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	T 1845	100% (33.87)	0.9992	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00297982	Eukaryotic translation initiation factor 2 subunit 3	T 213	100% (29.30)	0.9991	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0	2	0	0	0	0	0
IPI00003479	Mitogen-activated protein kinase 1	T 184	100% (30.19)	0.9990	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0
IPI00003843	Isoform A1 of Tight junction protein ZO-2	T 339	100% (15.08)	0.9990	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00409640	LISCH protein isoform 2	T 501	100% (36.01)	0.9990	3	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
IPI00409641	LISCH protein isoform 3	T 433	100% (36.01)	0.9990	3	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
IPI00641640	LISCH protein isoform 1	T 482	100% (36.01)	0.9990	3	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
IPI00103731	Jun dimerization protein 2	T 159	100% (32.69)	0.9989	3	5	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	2	0	0
IPI00221394	H/ACA ribonucleoprotein complex subunit 4	T 457	100% (22.19)	0.9987	1	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0
IPI00552897	Isoform 1 of Mediator of DNA damage checkpoint protein 1	T 455	100% (30.85)	0.9987	4	5	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0
IPI00641106	227 kDa protein	T 455	100% (30.85)	0.9987	4	5	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0
IPI00157442	Rho guanine nucleotide exchange factor 11	T 668	100% (14.19)	0.9985	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00377085	Rho guanine nucleotide exchange factor (GEF) 11 isoform 2	T 708	100% (14.19)	0.9985	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514608	172 kDa protein	T 706	100% (14.19)	0.9985	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00017450	Transcription initiation factor IIF alpha subunit	T 389	100% (36.05)	0.9985	5	5	0	0	0	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00005688	Zinc finger protein 185	T 215	100% (14.02)	0.9984	16	21	1	1	1	0	0	0	1	2	1	0	1	0	2	1	2	2	1	0	1	2	1	1	0	0	1	1	2	1	1	1	1	2	2	2	1	1
IPI00306195	CDNA FLJ30949 fis, clone HCASM1000021, weakly similar to Plasmodium berghei strain NYU2 merozoite	T 266	100% (14.02)	0.9984	4	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00549786	AKT1S1 protein	T 246	100% (14.02)	0.9984	4	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00018037	Surfeit locus protein 2	T 184	100% (30.83)	0.9984	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00419264	surfeit 2	T 184	100% (30.83)	0.9984	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00016861	Isoform 1 of General transcription factor 3C polypeptide 2	T 906	100% (27.83)	0.9984	5	3	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00302592	Filamin A, alpha	T 2328	100% (30.75)	0.9983	1	4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00333541	Filamin-A	T 2335	100% (30.75)	0.9983	1	4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00022585	Isoform 1 of A kinase anchor protein 1, mitochondrial precursor	T 533	100% (29.85)	0.9979	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00158627	Isoform 2 of A kinase anchor protein 1, mitochondrial precursor	T 533	100% (29.85)	0.9979	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00006211	VAMP-associated protein B/C	T 150	100% (33.81)	0.9979	4	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0
IPI00013068	Eukaryotic translation initiation factor 3 subunit 6	T 212	100% (13.40)	0.9979	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00290032	Transient receptor potential cation channel subfamily M member 7	T 703	100% (15.08)	0.9979	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00003519	116 kDa U5 small nuclear ribonucleoprotein component	T 824	100% (26.51)	0.9978	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00555610	313 kDa protein	T 306	100% (26.31)	0.9977	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00023095	Myeloid leukemia factor 2	T 124	100% (26.31)	0.9977	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218529	Isoform AML-1I of Runt-related transcription factor 1	T 29	100% (29.32)	0.9977	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218936	Isoform AML-1A of Runt-related transcription factor 1	T 14	100% (29.32)	0.9977	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218938	Isoform AML-1C of Runt-related transcription factor 1	T 14	100% (29.32)	0.9977	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218942	Isoform AML-1FC of Runt-related transcription factor 1	T 14	100% (29.32)	0.9977	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218943	Isoform AML-1G of Runt-related transcription factor 1	T 41	100% (29.32)	0.9977	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218944	Isoform AML-1H of Runt-related transcription factor 1	T 17	100% (29.32)	0.9977	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413370	RUNX1 protein (Fragment)	T 41	100% (29.32)	0.9977	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00477787	Isoform AML-1B of Runt-related transcription factor 1	T 14	100% (29.32)	0.9977	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00552897	Isoform 1 of Mediator of DNA damage checkpoint protein 1	T 301	100% (26.11)	0.9976	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00641106	227 kDa protein	T 301	100% (26.11)	0.9976	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00004233	Isoform Long of Antigen KI-67	T 2773	100% (29.09)	0.9975	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00301293	antigen identified by monoclonal antibody Ki-67	T 2773	100% (29.09)	0.9975	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00071185	Isoform SV1 of PITSLRE serine/threonine-protein kinase CDC2L1	T 61	100% (25.87)	0.9974	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00071188	Isoform SV10 of PITSLRE serine/threonine-protein kinase CDC2L1	T 27	100% (25.87)	0.9974	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00215999	Isoform SV9 of PITSLRE serine/threonine-protein kinase CDC2L1	T 61	100% (25.87)	0.9974	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00008708	Ribosomal L1 domain-containing protein 1	T 423	100% (12.81)	0.9973	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00412993	CDNA FLJ36874 fis, clone ASTRO2018169, weakly similar to Oocyte- specific protein P100	T 35	100% (14.02)	0.9971	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00027078	Carboxypeptidase D precursor	T 1370	100% (31.91)	0.9968	9	9	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0
IPI00059242	Synapse-associated protein 1	T 79	100% (15.01)	0.9967	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00418991	CDNA FLJ44035 fis, clone TESTI4028612	T 1102	100% (26.93)	0.9965	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00742090	QSER1 protein (Fragment)	T 1341	100% (26.93)	0.9965	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220038	Isoform B of Arsenite-resistance protein 2	T 544	100% (32.22)	0.9965	9	8	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	1	3	0	0	0	0
IPI00337663	ARS2 protein	T 543	100% (32.22)	0.9965	9	8	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	1	3	0	0	0	0
IPI00375144	Isoform A of Arsenite-resistance protein 2	T 544	100% (32.22)	0.9965	9	8	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	1	3	0	0	0	0
IPI00215948	Isoform 1 of Alpha-1 catenin	T 658	100% (26.82)	0.9965	3	9	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	4	0	0	0	0
IPI00554788	Keratin, type I cytoskeletal 18	T 65	100% (12.23)	0.9964	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00298870	Transmembrane protein 1	T 913	100% (24.34)	0.9963	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00001735	nuclear receptor co-repressor 2	T 553	100% (24.24)	0.9962	10	10	2	1	0	0	0	0	3	0	0	0	0	0	3	1	0	0	0	0	3	1	0	0	0	0	2	0	0	0	0	0	3	1	0	0	0	0
IPI00180764	Histone acetyltransferase MYST2	T 88	100% (24.24)	0.9962	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00219841	DNA ligase 1	T 183	100% (28.96)	0.9962	3	9	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	3	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0
IPI00159652	PREDICTED: hypothetical protein LOC23045 isoform 1	T 2149	100% (27.16)	0.9962	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00739607	PREDICTED: similar to CG32045-PB, isoform B isoform 5	T 2149	100% (27.16)	0.9962	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00221325	Ran-binding protein 2	T 2293	100% (30.75)	0.9962	2	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00186028	Hypothetical protein DKFZp434A112	T 856	100% (30.09)	0.9961	2	5	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0
IPI00748953	110 kDa protein	T 858	100% (30.09)	0.9961	2	5	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	T 1413	100% (29.16)	0.9959	9	9	4	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	5	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0
IPI00023344	Isoform 1 of Symplekin	T 1257	100% (23.42)	0.9954	7	8	1	2	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0
IPI00746292	symplekin	T 1125	100% (23.42)	0.9954	7	8	1	2	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	0	2	1	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0
IPI00075248	Calmodulin	T 110	100% (11.64)	0.9953	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00293845	275 kDa protein	T 2345	100% (27.35)	0.9951	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00375454	Isoform 2 of Telomere-associated protein RIF1	T 2319	100% (27.35)	0.9951	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00477805	Isoform 1 of Telomere-associated protein RIF1	T 2343	100% (27.35)	0.9951	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00294250	Ephrin type-A receptor 1 precursor	T 29	99% (22.99)	0.9950	6	7	0	0	1	1	0	1	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	1	1	0	1
IPI00300384	Receptor tyrosine-protein kinase erbB-2 precursor	T 701	99% (22.99)	0.9950	1	6	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0
IPI00654851	erbB-2 isoform b	T 671	99% (22.99)	0.9950	1	6	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0
IPI00301503	Isoform 1 of Arginine/serine-rich splicing factor 10	T 201	99% (22.93)	0.9949	22	22	2	2	1	2	1	0	2	1	1	2	1	0	0	1	0	3	3	0	1	1	1	2	0	0	2	1	3	3	1	0	1	0	2	2	2	0
IPI00555647	Splicing factor, arginine/serine-rich 10	T 201	99% (22.93)	0.9949	22	22	2	2	1	2	1	0	2	1	1	2	1	0	0	1	0	3	3	0	1	1	1	2	0	0	2	1	3	3	1	0	1	0	2	2	2	0
IPI00164434	Isoform 1 of Receptor expression-enhancing protein 3	T 201	99% (21.15)	0.9949	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00173346	Phosphoglucomutase-2-like 1	T 173	99% (11.36)	0.9947	2	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00065931	A-kinase anchor protein 13 isoform 1	T 2471	99% (22.63)	0.9945	2	3	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00006079	Isoform 1 of Bcl-2-associated transcription factor 1	T 257	99% (26.57)	0.9941	5	6	0	1	1	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0
IPI00413671	Isoform 2 of Bcl-2-associated transcription factor 1	T 255	99% (26.57)	0.9941	5	6	0	1	1	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0
IPI00413672	Isoform 3 of Bcl-2-associated transcription factor 1	T 255	99% (26.57)	0.9941	5	6	0	1	1	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0
IPI00295457	myosin phosphatase-Rho interacting protein isoform 1	T 542	99% (11.12)	0.9941	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00398012	Fragile site-associated protein	T 2598	99% (24.24)	0.9940	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00014068	Isoform 1 of Serine/threonine-protein kinase PAK 4	T 207	99% (11.10)	0.9940	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00021439	Actin, cytoplasmic 1	T 89	99% (11.10)	0.9940	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00021440	Actin, cytoplasmic 2	T 89	99% (11.10)	0.9940	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00054042	Isoform 1 of General transcription factor II-I	T 558	99% (11.10)	0.9940	3	4	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0
IPI00217449	Isoform 3 of General transcription factor II-I	T 538	99% (11.10)	0.9940	3	4	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0
IPI00217450	Isoform 4 of General transcription factor II-I	T 537	99% (11.10)	0.9940	3	4	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0
IPI00293242	Isoform 2 of General transcription factor II-I	T 517	99% (11.10)	0.9940	3	4	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	T 1177	99% (11.10)	0.9940	2	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00748891	26 kDa protein	T 94	99% (25.11)	0.9939	2	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00030116	Isoform 1 of Phosphoacetylglucosamine mutase	T 62	99% (25.11)	0.9939	4	6	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0
IPI00297593	Ubiquitin-specific proteinase 34	T 3381	99% (26.31)	0.9938	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00218729	Isoform 2 of Disks large homolog 1	T 115	99% (26.51)	0.9933	3	4	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00552511	Isoform 4 of Disks large homolog 1	T 115	99% (26.51)	0.9933	3	4	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00152701	Hypothetical protein FLJ23660	T 542	99% (20.41)	0.9932	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00386700	ladinin 1	T 274	99% (21.68)	0.9932	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00514234	Ladinin 1	T 288	99% (21.68)	0.9932	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00013891	Isoform Long of Transformer-2 protein homolog	T 88	99% (24.44)	0.9928	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0
IPI00294742	HDCMA18P protein	T 257	99% (26.06)	0.9926	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	0	0	0	0	1	0	0	0
IPI00029697	exosome component 9 isoform 1	T 305	99% (10.61)	0.9925	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00607722	Hypothetical protein PMSCL1	T 221	99% (10.61)	0.9925	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00654592	exosome component 9 isoform 2	T 305	99% (10.61)	0.9925	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00001466	Echinoderm microtubule-associated protein-like 4	T 899	99% (28.17)	0.9923	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00003842	Isoform 1 of Microtubule-associated protein 2	T 1780	99% (14.19)	0.9914	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010728	203 kDa protein	T 1811	99% (14.19)	0.9914	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00472094	Isoform 3 of Microtubule-associated protein 2	T 1776	99% (14.19)	0.9914	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00234446	activating transcription factor 2	T 69	99% (20.17)	0.9911	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00384541	Novel protein	T 358	99% (20.41)	0.9909	2	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00639879	Novel protein	T 332	99% (20.41)	0.9909	2	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00446377	CDNA FLJ41744 fis, clone HSYRA2005496, highly similar to ENDOGLIN	T 300	99% (12.68)	0.9908	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00301058	Vasodilator-stimulated phosphoprotein	T 283	99% (20.32)	0.9907	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00026089	Splicing factor 3B subunit 1	T 328	99% (20.17)	0.9904	3	2	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00032003	Emerin	T 30	99% (13.20)	0.9899	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00438229	Isoform 1 of Transcription intermediary factor 1-beta	T 541	99% (19.86)	0.9897	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00015602	Mitochondrial precursor proteins import receptor	T 85	99% (19.67)	0.9893	4	3	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0
IPI00008274	Adenylyl cyclase-associated protein 1	T 306	99% (22.01)	0.9893	26	36	3	2	2	3	2	0	0	1	2	3	2	0	2	1	1	1	1	0	2	3	5	1	0	0	1	2	3	3	1	1	3	3	3	4	1	0
IPI00179700	high mobility group AT-hook 1 isoform a	T 53	99% (24.34)	0.9891	4	3	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00026089	Splicing factor 3B subunit 1	T 273	99% (24.20)	0.9887	2	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00479404	vacuolar protein sorting 13D isoform 1	T 1766	99% (19.20)	0.9886	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514073	vacuolar protein sorting 13D isoform 2	T 1766	99% (19.20)	0.9886	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00384529	Hypothetical protein DKFZp547K059	T 342	99% (19.83)	0.9884	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00375358	Isoform 1 of Replication factor C subunit 1	T 161	99% (25.11)	0.9879	5	5	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0
IPI00375359	Isoform 2 of Replication factor C subunit 1	T 161	99% (25.11)	0.9879	5	5	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0
IPI00644591	hypothetical protein LOC64423 isoform 2	T 709	99% (18.93)	0.9872	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00179016	Histone-lysine N-methyltransferase, H3 lysine-4 specific SET1	T 916	99% (9.34)	0.9866	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00158615	Isoform 1 of THO complex subunit 2	T 1211	99% (9.34)	0.9866	2	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00445401	Isoform 2 of HECT, UBA and WWE domain-containing protein 1	T 3908	99% (22.49)	0.9865	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0
IPI00456919	Isoform 1 of HECT, UBA and WWE domain-containing protein 1	T 3924	99% (22.49)	0.9865	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0
IPI00643153	Isoform 3 of HECT, UBA and WWE domain-containing protein 1	T 3915	99% (22.49)	0.9865	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0
IPI00170865	Membrane-associated guanylate kinase-related 3	T 1371	99% (22.45)	0.9864	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00064382	CDNA FLJ14681 fis, clone NT2RP2004270, weakly similar to PROTEIN PTM1	T 318	99% (18.58)	0.9861	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00550212	cytoplasmic FMR1 interacting protein 1 isoform b	T 157	99% (21.51)	0.9860	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00644231	cytoplasmic FMR1 interacting protein 1 isoform a	T 588	99% (21.51)	0.9860	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022661	Isoform Delta of Poliovirus receptor-related protein 2 precursor	T 410	99% (21.51)	0.9860	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00002580	Phosphatidylinositol-4-phosphate 3-kinase C2 domain-containing alpha polypeptide	T 1618	99% (21.75)	0.9858	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00033600	Isoform 1 of Protein phosphatase 1 regulatory subunit 7	T 325	99% (18.41)	0.9856	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00021786	RAF proto-oncogene serine/threonine-protein kinase	T 213	99% (22.99)	0.9851	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00215719	60S ribosomal protein L18	T 157	99% (21.22)	0.9851	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00304885	Centromere protein C 1	T 130	98% (22.93)	0.9849	2	4	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0
IPI00012199	Hypothetical protein FLJ22321	T 65	98% (9.11)	0.9846	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00013743	Hypothetical protein BUD13	T 187	98% (11.12)	0.9846	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00217468	Histone H1.5	T 3	98% (17.91)	0.9840	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00029601	Src substrate cortactin	T 402	98% (22.94)	0.9836	59	60	4	5	6	4	0	0	4	4	5	3	1	0	5	4	6	6	2	0	4	4	5	2	3	0	4	3	5	5	4	0	4	3	7	3	3	1
IPI00062884	cortactin isoform b	T 364	98% (22.94)	0.9836	59	60	4	5	6	4	0	0	4	4	5	3	1	0	5	4	6	6	2	0	4	4	5	2	3	0	4	3	5	5	4	0	4	3	7	3	3	1
IPI00746806	CTTN protein	T 364	98% (22.94)	0.9836	59	60	4	5	6	4	0	0	4	4	5	3	1	0	5	4	6	6	2	0	4	4	5	2	3	0	4	3	5	5	4	0	4	3	7	3	3	1
IPI00219526	phosphoglucomutase 1	T 115	98% (8.87)	0.9834	6	10	0	0	2	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	1	1	0	0	0	0	1	4	0	0	0	0	1	2	0	0	0
IPI00646782	Hypothetical protein FAM73B	T 273	98% (17.80)	0.9834	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00396063	Pseudogene candidate	T 1062	98% (8.82)	0.9831	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00376976	Isoform 1 of 130-kDa phosphatidylinositol 4,5-biphosphate-dependent ARF1 GTPase- activating protein	T 840	98% (9.27)	0.9830	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00410303	development and differentiation enhancing factor 1	T 837	98% (9.27)	0.9830	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00027078	Carboxypeptidase D precursor	T 1368	98% (26.64)	0.9829	3	6	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0
IPI00218240	Wolf-Hirschhorn syndrome candidate 1 protein isoform 1	T 110	98% (17.13)	0.9824	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00289746	Isoform 2 of Serine/threonine-protein kinase PAK 1	T 230	98% (24.44)	0.9823	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00656138	Isoform 1 of Serine/threonine-protein kinase PAK 1	T 230	98% (24.44)	0.9823	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00005688	Zinc finger protein 185	T 340	98% (17.08)	0.9811	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
IPI00013881	heterogeneous nuclear ribonucleoprotein H1	T 107	98% (17.21)	0.9810	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00479191	HNRPH1 protein	T 107	98% (17.21)	0.9810	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00029764	Splicing factor 3A subunit 3	T 197	98% (17.08)	0.9807	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00219301	Myristoylated alanine-rich C-kinase substrate	T 149	98% (21.87)	0.9803	33	40	0	3	5	3	0	0	1	3	6	2	0	0	0	3	4	3	0	0	0	3	6	1	0	0	0	4	8	1	1	0	1	4	7	2	0	2
IPI00218240	Wolf-Hirschhorn syndrome candidate 1 protein isoform 1	T 114	98% (16.64)	0.9802	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022348	Isoform PML-1 of Probable transcription factor PML	T 42	98% (17.01)	0.9801	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220453	Isoform PML-X of Probable transcription factor PML	T 42	98% (17.01)	0.9801	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00303999	Isoform PML-2 of Probable transcription factor PML	T 42	98% (17.01)	0.9801	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00304000	Isoform PML-3 of Probable transcription factor PML	T 42	98% (17.01)	0.9801	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00332110	promyelocytic leukemia protein isoform 9	T 42	98% (17.01)	0.9801	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00657953	triple functional domain	T 1824	98% (19.64)	0.9786	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00083708	HBxAg transactivated protein 2	T 1267	98% (24.34)	0.9784	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00739117	HBxAg transactivated protein 2	T 1265	98% (24.34)	0.9784	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00306840	Sphingosine-1-phosphate phosphatase 1	T 114	98% (8.26)	0.9782	4	3	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0
IPI00295022	NK-tumor recognition protein	T 343	98% (8.22)	0.9775	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00440932	Isoform 1 of ADAM 9 precursor	T 761	98% (16.36)	0.9769	3	3	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00552897	Isoform 1 of Mediator of DNA damage checkpoint protein 1	T 378	98% (16.36)	0.9769	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00641106	227 kDa protein	T 378	98% (16.36)	0.9769	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00747759	91 kDa protein	T 763	98% (16.36)	0.9769	3	3	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00642862	Peptidyl-prolyl cis-trans isomerase-like 4	T 182	98% (16.35)	0.9768	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00026256	Filaggrin	T 220	98% (20.77)	0.9766	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
IPI00643014	retinoblastoma-associated factor 600	T 2724	98% (8.08)	0.9764	9	7	2	0	0	0	0	0	4	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0
IPI00746934	574 kDa protein	T 2725	98% (8.08)	0.9764	9	7	2	0	0	0	0	0	4	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0
IPI00024976	Mitochondrial import receptor subunit TOM22 homolog	T 42	98% (12.09)	0.9760	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00106495	Condensin complex subunit 3	T 435	98% (10.83)	0.9759	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00215948	Isoform 1 of Alpha-1 catenin	T 654	98% (16.15)	0.9757	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00292000	Isoform 1 of U4/U6 small nuclear ribonucleoprotein Prp31	T 499	97% (15.92)	0.9744	3	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00657721	55 kDa protein	T 493	97% (15.92)	0.9744	3	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00022465	Isoform 1 of Citron Rho-interacting kinase	T 891	97% (15.57)	0.9723	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
IPI00719285	Citron	T 933	97% (15.57)	0.9723	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	T 866	97% (20.08)	0.9713	8	7	2	0	0	0	0	0	3	0	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0
IPI00017763	Nucleosome assembly protein 1-like 4	T 51	97% (19.86)	0.9698	3	4	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0
IPI00291802	Isoform 3 of LIM domain only protein 7	T 1091	97% (22.01)	0.9695	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00396387	guanine nucleotide binding protein-like 1	T 48	97% (16.66)	0.9692	2	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00023234	Ubiquitin-like 1-activating enzyme E1B	T 463	97% (7.48)	0.9691	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00064666	Protein FAM84B	T 288	97% (14.02)	0.9689	7	8	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	2	0	0	0
IPI00217413	DEAH (Asp-Glu-Ala-His) box polypeptide 29	T 559	97% (7.43)	0.9683	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00299608	Isoform 1 of 26S proteasome non-ATPase regulatory subunit 1	T 830	97% (14.71)	0.9675	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00064931	Isoform 2 of E1A-binding protein p400	T 909	97% (24.88)	0.9674	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00167535	344 kDa protein	T 947	97% (24.88)	0.9674	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00477005	E1A binding protein p400	T 908	97% (24.88)	0.9674	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00479168	Isoform 1 of E1A-binding protein p400	T 945	97% (24.88)	0.9674	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00748478	Isoform 4 of E1A-binding protein p400	T 911	97% (24.88)	0.9674	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00012462	CDA02	T 310	97% (8.08)	0.9669	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00007765	Stress-70 protein, mitochondrial precursor	T 120	97% (14.63)	0.9666	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00008868	Microtubule-associated protein 1B	T 2345	97% (14.89)	0.9662	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00374770	microtubule-associated protein 1B isoform 2	T 2219	97% (14.89)	0.9662	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00604756	Nuclear receptor-binding protein	T 433	97% (14.63)	0.9656	3	5	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0
IPI00004970	Small subunit processome component 20 homolog	T 1991	96% (7.21)	0.9647	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00738219	PREDICTED: similar to Down-regulated in metastasis protein	T 1991	96% (7.21)	0.9647	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00552897	Isoform 1 of Mediator of DNA damage checkpoint protein 1	T 331	96% (14.50)	0.9646	3	9	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	3	0	1	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0
IPI00641106	227 kDa protein	T 331	96% (14.50)	0.9646	3	9	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	3	0	1	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0
IPI00000875	Elongation factor 1-gamma	T 45	96% (14.47)	0.9643	5	5	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00738806	PREDICTED: myosin VIIB	T 1883	96% (14.47)	0.9643	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00747497	50 kDa protein	T 45	96% (14.47)	0.9643	5	5	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0
IPI00008708	Ribosomal L1 domain-containing protein 1	T 401	96% (7.21)	0.9638	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00024062	Band 4.1-like protein 1	T 475	96% (14.34)	0.9632	5	5	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0
IPI00644651	EPB41L1 protein	T 475	96% (14.34)	0.9632	5	5	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0
IPI00291376	Putative RNA methyltransferase NCOA6IP	T 407	96% (14.19)	0.9623	3	1	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00418169	annexin A2 isoform 1	T 37	96% (20.08)	0.9621	2	8	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	1	2	0	0
IPI00455315	Annexin A2	T 18	96% (20.08)	0.9621	2	8	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	1	2	0	0
IPI00011857	Chromatin assembly factor 1 subunit B	T 432	96% (15.92)	0.9620	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00329573	Isoform Long of Collagen alpha-1(XII) chain precursor	T 860	96% (22.39)	0.9619	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641961	Collagen, type XII, alpha 1	T 860	96% (22.39)	0.9619	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00745263	collagen, type XII, alpha 1 long isoform precursor	T 860	96% (22.39)	0.9619	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00025849	Acidic leucine-rich nuclear phosphoprotein 32 family member A	T 15	96% (14.19)	0.9619	3	4	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0
IPI00410127	Transforming, acidic coiled-coil containing protein 2	T 1800	96% (7.21)	0.9618	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00643465	transforming, acidic coiled-coil containing protein 2 isoform a	T 2073	96% (7.21)	0.9618	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00219446	Phosphatidylethanolamine-binding protein 1	T 50	96% (17.01)	0.9613	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00217468	Histone H1.5	T 10	96% (16.95)	0.9608	3	4	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0
IPI00218486	Isoform 1 of Protein phosphatase Slingshot homolog 3	T 17	96% (16.95)	0.9608	5	5	0	1	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0
IPI00290652	remodeling and spacing factor 1	T 1278	96% (16.81)	0.9608	9	6	3	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	0	1	0	0	0	0
IPI00514411	Isoform 2 of Hepatitis B virus X-associated protein	T 1237	96% (16.81)	0.9608	9	6	3	1	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0
IPI00328293	Serine¥/arginine repetitive matrix 1	T 727	96% (14.02)	0.9605	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00296388	Isoform 1 of Bromodomain adjacent to zinc finger domain 2A	T 1023	96% (14.02)	0.9605	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00745274	bromodomain adjacent to zinc finger domain, 2A	T 1053	96% (14.02)	0.9605	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00759742	Isoform 2 of Bromodomain adjacent to zinc finger domain 2A	T 1053	96% (14.02)	0.9605	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00464952	Splicing factor arginine/serine-rich 11	T 325	96% (19.86)	0.9602	4	6	0	0	0	1	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	1	1	1	0	0
IPI00641287	Splicing factor p54	T 325	96% (19.86)	0.9602	4	6	0	0	0	1	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	1	1	1	0	0
IPI00641842	Splicing factor, arginine¥/serine-rich 11	T 265	96% (19.86)	0.9602	4	6	0	0	0	1	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	1	1	1	0	0
IPI00005688	Zinc finger protein 185	T 23	96% (17.71)	0.9580	5	8	0	1	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	1	0	2	0	0	0	3	1	1	0	0	0	0	0	0	0	0
IPI00216348	Isoform 2C of Cytoplasmic dynein 1 intermediate chain 2	T 89	96% (20.41)	0.9564	5	6	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
IPI00290652	remodeling and spacing factor 1	T 408	96% (13.59)	0.9564	2	8	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	0	2	1	0	0	0
IPI00514411	Isoform 2 of Hepatitis B virus X-associated protein	T 367	96% (13.59)	0.9564	2	8	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	0	2	1	0	0	0
IPI00021048	Isoform 1 of Myoferlin	T 172	96% (6.70)	0.9563	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00004363	STE20/SPS1-related proline-alanine-rich protein kinase	T 297	96% (16.36)	0.9553	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00749208	Small intestine SPAK-like kinase	T 226	96% (16.36)	0.9553	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00012079	Eukaryotic translation initiation factor 4B	T 420	95% (20.84)	0.9542	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0
IPI00257508	Dihydropyrimidinase-related protein 2	T 521	95% (6.59)	0.9541	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00646885	Rho GTPase activating protein 5 isoform a	T 1217	95% (6.59)	0.9541	2	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00397526	Myosin-10	T 1960	95% (16.15)	0.9532	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00173461	Junctophilin-1	T 461	95% (7.21)	0.9516	4	4	0	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00425560	Isoform 1 of LAP4 protein	T 1342	95% (18.65)	0.9514	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00425566	Isoform 4 of LAP4 protein	T 1342	95% (18.65)	0.9514	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00006079	Isoform 1 of Bcl-2-associated transcription factor 1	T 405	95% (9.63)	0.9501	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413671	Isoform 2 of Bcl-2-associated transcription factor 1	T 403	95% (9.63)	0.9501	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413672	Isoform 3 of Bcl-2-associated transcription factor 1	T 403	95% (9.63)	0.9501	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00003843	Isoform A1 of Tight junction protein ZO-2	T 445	95% (11.10)	0.9490	4	2	0	1	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00025058	Isoform 3 of Double-stranded RNA-specific adenosine deaminase	T 601	95% (20.41)	0.9482	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00184330	DNA replication licensing factor MCM2	T 39	95% (12.81)	0.9480	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00419433	Isoform 1 of Rab11 family-interacting protein 1	T 154	95% (12.81)	0.9478	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00169307	Rho GTPase activating protein 21	T 1113	95% (12.81)	0.9478	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00221325	Ran-binding protein 2	T 1396	95% (11.86)	0.9465	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00419979	p21-activated kinase 2	T 178	95% (15.53)	0.9463	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005202	Membrane-associated progesterone receptor component 2	T 211	94% (15.42)	0.9450	7	13	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	3	3	0	0	0	0	2	2	0
IPI00748920	splicing coactivator subunit SRm300	T 2583	94% (14.34)	0.9436	4	1	1	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00396387	guanine nucleotide binding protein-like 1	T 50	94% (12.24)	0.9429	5	4	0	0	1	0	0	0	0	0	2	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	1	0
IPI00008918	Isoform Beta of LIM domain and actin-binding protein 1	T 57	94% (12.31)	0.9414	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	1	1	0	0	0	0	0	0
IPI00024579	Postreplication repair protein RAD18	T 468	94% (22.45)	0.9410	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00257508	Dihydropyrimidinase-related protein 2	T 514	94% (15.32)	0.9403	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00028275	Cytoskeleton-associated protein 5	T 832	94% (16.76)	0.9401	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00472887	colonic and hepatic tumor over-expressed protein isoform b	T 832	94% (16.76)	0.9401	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00006196	Isoform 2 of Nuclear mitotic apparatus protein 1	T 1965	94% (16.15)	0.9400	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00292771	Isoform 1 of Nuclear mitotic apparatus protein 1	T 1979	94% (16.15)	0.9400	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00179890	Isoform B of Ras-GTPase-activating protein-binding protein 2	T 227	94% (14.97)	0.9392	36	29	0	2	6	3	0	0	1	1	8	4	0	0	1	1	5	4	0	0	0	2	4	2	0	0	1	2	4	2	0	1	2	2	3	2	0	2
IPI00297211	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A member 5	T 113	94% (11.01)	0.9391	1	5	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
IPI00290950	Hypothetical protein DKFZp686P0251	T 475	94% (16.15)	0.9384	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00329787	WD repeat domain 20 isoform 3	T 402	94% (16.15)	0.9384	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00377221	WD repeat domain 20 isoform 1	T 463	94% (16.15)	0.9384	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00377222	WD repeat domain 20 isoform 4	T 339	94% (16.15)	0.9384	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00219841	DNA ligase 1	T 182	94% (5.84)	0.9365	3	5	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0
IPI00003842	Isoform 1 of Microtubule-associated protein 2	T 1605	94% (22.45)	0.9361	9	5	1	0	1	1	0	0	1	1	1	1	0	0	0	0	0	2	0	0	1	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0
IPI00010728	203 kDa protein	T 1605	94% (22.45)	0.9361	9	5	1	0	1	1	0	0	1	1	1	1	0	0	0	0	0	2	0	0	1	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0
IPI00472094	Isoform 3 of Microtubule-associated protein 2	T 1601	94% (22.45)	0.9361	9	5	1	0	1	1	0	0	1	1	1	1	0	0	0	0	0	2	0	0	1	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	T 317	93% (14.02)	0.9314	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00419933	Pleckstrin homology domain containing, family A member 2	T 909	93% (11.10)	0.9306	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00002549	Isoform 1 of Anaphase-promoting complex subunit 2	T 393	93% (14.29)	0.9296	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00375832	Isoform 2 of Anaphase-promoting complex subunit 2	T 390	93% (14.29)	0.9296	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00739363	PREDICTED: similar to Anaphase promoting complex subunit 2	T 167	93% (14.29)	0.9296	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00296432	Isoform 1 of IWS1-like protein	T 67	93% (12.44)	0.9282	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00170791	Isoform 2 of InaD-like protein	T 335	93% (14.19)	0.9280	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00170778	Formin binding protein 4	T 477	93% (14.19)	0.9279	1	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	1	0	0	0	0	0
IPI00384028	poly(A) polymerase alpha	T 23	93% (14.02)	0.9253	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00177642	Coiled-coil domain-containing protein 9	T 385	92% (14.02)	0.9249	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0
IPI00011592	Cytoplasmic dynein 1 light intermediate chain 2	T 441	92% (14.19)	0.9242	1	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0
IPI00554560	Hypothetical protein 101F10.1	T 131	92% (15.65)	0.9239	8	1	0	0	2	1	0	0	0	0	1	0	0	0	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00746731	Conserved hypothetical protein	T 157	92% (15.65)	0.9239	8	1	0	0	2	1	0	0	0	0	1	0	0	0	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00015952	Eukaryotic translation initiation factor 4 gamma 2	T 508	92% (11.10)	0.9228	8	9	0	1	1	1	0	0	1	1	1	0	0	0	0	1	1	0	0	0	0	1	1	1	0	0	1	1	0	1	0	0	1	1	1	0	0	0
IPI00220845	Isoform Beta-4A of Integrin beta-4 precursor	T 1460	92% (11.10)	0.9228	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00220847	Isoform Beta-4D of Integrin beta-4 precursor	T 1460	92% (11.10)	0.9228	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00216219	Isoform Long of Tight junction protein ZO-1	T 1425	92% (21.06)	0.9227	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00479262	Isoform B of Eukaryotic translation initiation factor 4 gamma 1	T 318	92% (16.80)	0.9226	2	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
IPI00026952	Plakophilin-3	T 235	92% (16.66)	0.9205	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218753	Isoform 3 of DNA topoisomerase 2-alpha	T 1280	92% (6.67)	0.9203	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218754	Isoform 4 of DNA topoisomerase 2-alpha	T 1325	92% (6.67)	0.9203	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00414101	Isoform 2 of DNA topoisomerase 2-alpha	T 1270	92% (6.67)	0.9203	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00478232	Isoform 1 of DNA topoisomerase 2-alpha	T 1280	92% (6.67)	0.9203	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00104050	Thyroid hormone receptor-associated protein 3	T 954	92% (5.31)	0.9202	3	1	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00291638	RB1-inducible coiled-coil protein 1	T 238	92% (5.31)	0.9200	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010486	Isoform 1 of Hermansky-Pudlak syndrome 5 protein	T 936	92% (5.47)	0.9168	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00396634	OTTHUMP00000028561	T 1059	92% (18.81)	0.9155	8	2	2	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00001735	nuclear receptor co-repressor 2	T 550	91% (8.77)	0.9138	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0
IPI00165995	Isoform 1 of Splicing factor, arginine/serine-rich 130	T 485	91% (13.34)	0.9133	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005614	Isoform Long of Spectrin beta chain, brain 1	T 1050	91% (10.32)	0.9125	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00290547	E14 protein	T 1153	91% (10.50)	0.9116	2	5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0
IPI00185919	Isoform 1 of La-related protein 1	T 515	91% (10.42)	0.9102	4	0	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00411635	KIAA0802 protein	T 1564	91% (12.85)	0.9096	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00028307	Hypothetical protein FLJ22346	T 288	91% (17.01)	0.9091	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216044	Isoform 1 of RNA-binding protein Raly	T 282	91% (14.78)	0.9083	15	15	0	0	0	4	1	0	0	0	0	5	0	0	1	0	0	4	0	0	1	0	1	2	1	0	1	0	1	1	0	0	1	0	0	6	0	0
IPI00160348	claspin	T 1330	91% (9.46)	0.9056	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00744511	CLSPN protein	T 1266	91% (9.46)	0.9056	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748041	Claspin homolog	T 1332	91% (9.46)	0.9056	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00410590	Isoform 2 of Protein FAM61A	T 194	90% (12.65)	0.8995	6	6	1	0	0	0	1	0	0	0	0	0	1	0	0	1	0	2	0	0	0	0	1	0	1	0	0	0	0	1	1	0	0	0	1	1	0	0
IPI00478300	Isoform 1 of Protein FAM61A	T 194	90% (12.65)	0.8995	6	6	1	0	0	0	1	0	0	0	0	0	1	0	0	1	0	2	0	0	0	0	1	0	1	0	0	0	0	1	1	0	0	0	1	1	0	0
IPI00008868	Microtubule-associated protein 1B	T 2341	90% (10.03)	0.8983	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00374770	microtubule-associated protein 1B isoform 2	T 2215	90% (10.03)	0.8983	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00455518	MORC family CW-type zinc finger 2	T 661	90% (14.19)	0.8961	2	2	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00218648	Isoform III of AT-rich interactive domain-containing protein 4A	T 555	90% (12.10)	0.8955	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00179057	Isoform 1 of Cullin-4B	T 31	89% (17.08)	0.8945	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00480142	Isoform 2 of Cullin-4B	T 49	89% (17.08)	0.8945	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00643352	nucleoporin 214kDa	T 437	89% (17.08)	0.8945	2	2	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00643885	103 kDa protein	T 36	89% (17.08)	0.8945	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00027505	Integrin alpha-V precursor	T 1048	89% (4.64)	0.8942	3	3	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0
IPI00216219	Isoform Long of Tight junction protein ZO-1	T 809	89% (4.64)	0.8942	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00023287	Isoform 4 of E3 ubiquitin-protein ligase NEDD4-like protein	T 352	89% (16.36)	0.8936	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00163321	Isoform 2 of E3 ubiquitin-protein ligase NEDD4-like protein	T 409	89% (16.36)	0.8936	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00166830	Isoform 5 of E3 ubiquitin-protein ligase NEDD4-like protein	T 453	89% (16.36)	0.8936	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00304945	Isoform 8 of E3 ubiquitin-protein ligase NEDD4-like protein	T 493	89% (16.36)	0.8936	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00640924	Isoform 1 of E3 ubiquitin-protein ligase NEDD4-like protein	T 473	89% (16.36)	0.8936	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00643856	Isoform 7 of E3 ubiquitin-protein ligase NEDD4-like protein	T 465	89% (16.36)	0.8936	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00644256	Isoform 6 of E3 ubiquitin-protein ligase NEDD4-like protein	T 445	89% (16.36)	0.8936	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00019471	Insulin receptor substrate 1	T 530	89% (14.02)	0.8930	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00215877	Isoform Short of Adenomatous polyposis coli protein	T 1337	89% (12.31)	0.8920	2	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00017030	Isoform 1 of Myosin-18A	T 99	89% (16.95)	0.8917	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00299608	Isoform 1 of 26S proteasome non-ATPase regulatory subunit 1	T 836	89% (9.55)	0.8917	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00021175	Cell division cycle 2-related protein kinase 7	T 893	89% (13.98)	0.8916	4	4	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00023532	Hypothetical protein DKFZp564A2416	T 201	89% (12.27)	0.8911	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
IPI00029601	Src substrate cortactin	T 400	89% (10.09)	0.8907	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00062884	cortactin isoform b	T 362	89% (10.09)	0.8907	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00746806	CTTN protein	T 362	89% (10.09)	0.8907	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00012199	Hypothetical protein FLJ22321	T 42	89% (12.23)	0.8902	3	4	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
IPI00414127	Ran-specific GTPase-activating protein	T 18	89% (16.31)	0.8874	5	10	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	2	2	0	0	0	0	2	2	0
IPI00011253	40S ribosomal protein S3	T 221	88% (9.34)	0.8850	18	20	2	1	1	1	1	0	1	1	1	2	1	1	2	0	1	1	1	0	1	2	1	1	2	1	1	1	2	2	1	0	1	0	1	1	2	0
IPI00017292	Isoform 1 of Beta-catenin	T 551	88% (9.34)	0.8850	4	4	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00217121	Protein C19orf21	T 377	88% (9.34)	0.8850	3	5	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00009771	Lamin-B2	T 39	88% (19.68)	0.8843	3	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0
IPI00552897	Isoform 1 of Mediator of DNA damage checkpoint protein 1	T 1671	88% (15.74)	0.8818	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00641106	227 kDa protein	T 1671	88% (15.74)	0.8818	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00457284	hypothetical protein LOC23131	T 505	88% (8.76)	0.8802	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00295502	PREDICTED: widely-interspaced zinc finger motifs isoform 1	T 916	88% (12.19)	0.8802	4	5	1	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00234446	activating transcription factor 2	T 71	88% (9.11)	0.8792	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00020984	Calnexin precursor	T 562	88% (8.27)	0.8786	5	6	0	0	0	0	0	0	1	0	1	0	0	0	0	2	0	1	0	0	0	0	1	0	0	1	2	0	0	0	0	1	0	0	1	0	1	0
IPI00183535	Isoform 1 of REST corepressor 3	T 376	88% (14.63)	0.8780	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00004233	Isoform Long of Antigen KI-67	T 1437	88% (9.03)	0.8776	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00301293	antigen identified by monoclonal antibody Ki-67	T 1437	88% (9.03)	0.8776	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005614	Isoform Long of Spectrin beta chain, brain 1	T 1049	87% (8.75)	0.8733	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00384176	Isoform 1 of Protein polybromo-1	T 1630	87% (12.95)	0.8722	4	6	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00001466	Echinoderm microtubule-associated protein-like 4	T 897	87% (16.76)	0.8718	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00745518	Microtubule-associated protein 4 isoform 1 variant (Fragment)	T 408	87% (8.75)	0.8686	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
IPI00740155	Hypothetical protein DKFZp686J17211	T 201	87% (11.36)	0.8682	2	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00031960	polymerase (RNA) I polypeptide A, 194kDa	T 360	87% (11.36)	0.8682	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00373870	Isoform 1 of Chromodomain helicase-DNA-binding protein 3	T 1646	87% (11.36)	0.8682	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00375441	far upstream element-binding protein	T 629	87% (11.36)	0.8682	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00465222	chromodomain helicase DNA binding protein 3 isoform 3	T 1691	87% (11.36)	0.8682	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00745518	Microtubule-associated protein 4 isoform 1 variant (Fragment)	T 655	87% (16.57)	0.8661	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	T 1214	87% (7.91)	0.8659	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	T 1219	87% (7.91)	0.8659	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00011857	Chromatin assembly factor 1 subunit B	T 433	87% (11.06)	0.8654	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00004472	Isoform 1 of Serine/threonine-protein kinase WNK1	T 75	86% (12.81)	0.8623	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00397590	Isoform 2 of Serine/threonine-protein kinase WNK1	T 75	86% (12.81)	0.8623	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00747266	226 kDa protein	T 75	86% (12.81)	0.8623	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748509	251 kDa protein	T 75	86% (12.81)	0.8623	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00172636	calcium/calmodulin-dependent protein kinase II delta isoform 1	T 337	86% (14.02)	0.8621	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00296291	HP1-BP74	T 51	86% (11.12)	0.8617	1	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00642238	Hypothetical protein DKFZp434J0612	T 51	86% (11.12)	0.8617	1	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00646486	HP1-BP74	T 13	86% (11.12)	0.8617	1	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00744429	61 kDa protein	T 51	86% (11.12)	0.8617	1	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00456681	Isoform 1 of Transcription elongation factor SPT6	T 1534	86% (11.10)	0.8614	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00302829	Retinoblastoma-associated protein	T 907	86% (5.55)	0.8614	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00292753	GTPase activating protein and VPS9 domains 1	T 762	86% (13.99)	0.8613	5	4	3	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00742770	KIAA1521 protein	T 601	86% (13.99)	0.8613	5	4	3	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00007334	Isoform 1 of Apoptotic chromatin condensation inducer in the nucleus	T 254	86% (11.10)	0.8611	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00298696	Treacle protein	T 504	86% (11.10)	0.8611	6	7	0	1	1	0	0	0	1	1	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0	0	2	1	1	0	0	0	1	0	1	0	0	0
IPI00747047	Treacle major isoform	T 581	86% (11.10)	0.8611	6	7	0	1	1	0	0	0	1	1	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0	0	2	1	1	0	0	0	1	0	1	0	0	0
IPI00029048	Tubulin--tyrosine ligase-like protein 12	T 20	85% (8.26)	0.8536	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00176903	Isoform 1 of Polymerase I and transcript release factor	T 302	85% (8.26)	0.8536	3	6	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0
IPI00027172	Isoform Long of Restin	T 350	85% (8.22)	0.8523	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00217113	Isoform Short of Restin	T 350	85% (8.22)	0.8523	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00301311	Isoform 2 of Protein SET	T 23	85% (8.22)	0.8523	3	6	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0
IPI00748920	splicing coactivator subunit SRm300	T 2170	85% (8.22)	0.8523	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00220219	Coatomer subunit beta'	T 860	85% (13.63)	0.8509	3	1	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00026320	Ubiquitin-protein ligase EDD1	T 637	85% (8.14)	0.8495	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	T 1056	85% (8.14)	0.8495	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00376229	Isoform 1 of Phosphofurin acidic cluster sorting protein 1	T 429	85% (8.14)	0.8495	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456262	Isoform 2 of Phosphofurin acidic cluster sorting protein 1	T 429	85% (8.14)	0.8495	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00741894	PREDICTED: similar to E3 ubiquitin protein ligase, HECT domain containing, 1	T 564	85% (8.14)	0.8495	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	T 1061	85% (8.14)	0.8495	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00014376	RAB31, member RAS oncogene family variant	T 62	85% (7.30)	0.8481	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00029601	Src substrate cortactin	T 412	85% (15.22)	0.8466	2	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00062884	cortactin isoform b	T 374	85% (15.22)	0.8466	2	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00746806	CTTN protein	T 374	85% (15.22)	0.8466	2	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR															
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00329573	Isoform Long of Collagen alpha-1(XII) chain precursor	T 1791	84% (12.63)	0.8446	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641961	Collagen, type XII, alpha 1	T 1791	84% (12.63)	0.8446	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00745263	collagen, type XII, alpha 1 long isoform precursor	T 1791	84% (12.63)	0.8446	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00337530	Isoform 1 of RalBP1-associated Eps domain-containing protein 1	T 121	84% (11.10)	0.8436	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00337532	Isoform 3 of RalBP1-associated Eps domain-containing protein 1	T 121	84% (11.10)	0.8436	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00394829	hypothetical protein LOC286077	T 1065	84% (10.47)	0.8420	11	13	1	1	0	0	1	0	1	1	1	0	1	0	0	1	1	1	1	0	1	1	1	1	1	0	1	1	0	1	1	0	0	2	1	0	1	0
IPI00555610	313 kDa protein	T 2910	84% (14.19)	0.8388	7	5	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	2	0	2	0	0	0	0	0	0
IPI00398505	Ubiquitin carboxyl-terminal hydrolase 24	T 2565	84% (13.99)	0.8372	2	3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00221325	Ran-binding protein 2	T 779	84% (9.34)	0.8350	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00180154	Isoform 1 of Ataxin-2	T 667	83% (14.02)	0.8336	4	5	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0
IPI00455359	Isoform 2 of Ataxin-2	T 665	83% (14.02)	0.8336	4	5	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0
IPI00455363	Isoform 4 of Ataxin-2	T 665	83% (14.02)	0.8336	4	5	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0
IPI00719520	ATXN2 protein (Fragment)	T 455	83% (14.02)	0.8336	4	5	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0
IPI00030408	M-phase phosphoprotein 8	T 401	83% (11.10)	0.8313	1	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
IPI00296078	zinc finger transcription factor TRPS1	T 839	83% (3.39)	0.8267	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00004671	Golgin subfamily B member 1	T 2730	82% (11.05)	0.8248	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010586	TATA element modulatory factor	T 929	82% (11.06)	0.8243	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00015580	formin binding protein 1-like isoform 2	T 179	82% (3.42)	0.8234	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00028718	Formin binding protein 1-like	T 179	82% (3.42)	0.8234	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00607808	formin binding protein 1-like isoform 1	T 179	82% (3.42)	0.8234	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00646028	Formin binding protein 1-like	T 179	82% (3.42)	0.8234	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00217975	Lamin-B1	T 19	82% (7.21)	0.8213	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00306933	Isoform Short of Myosin-9B	T 1348	82% (7.28)	0.8184	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00336047	Isoform Long of Myosin-9B	T 1348	82% (7.28)	0.8184	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216044	Isoform 1 of RNA-binding protein Raly	T 270	82% (4.67)	0.8156	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00024650	Monocarboxylate transporter 1	T 466	82% (7.21)	0.8156	2	4	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	0	0	0	0	0	0
IPI00294840	Absent in melanoma 1 protein	T 20	81% (6.04)	0.8138	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00302829	Retinoblastoma-associated protein	T 356	81% (12.63)	0.8118	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00556619	TXNDC14 protein	T 247	81% (11.10)	0.8072	2	5	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	1	1	0	0	0	0
IPI00000001	Isoform Long of Double-stranded RNA-binding protein Staufen homolog 1	T 277	81% (11.10)	0.8072	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0
IPI00218609	Isoform Short of Double-stranded RNA-binding protein Staufen homolog 1	T 196	81% (11.10)	0.8072	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0
IPI00307733	huntingtin interacting protein B	T 1448	81% (11.10)	0.8072	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00643664	staufen isoform c	T 202	81% (11.10)	0.8072	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
IPI00030131	thymopoietin isoform beta	T 160	81% (14.02)	0.8070	6	1	0	0	1	1	0	0	0	0	1	1	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216230	Lamina-associated polypeptide 2 isoform alpha	T 159	81% (14.02)	0.8070	6	1	0	0	1	1	0	0	0	0	1	1	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00104050	Thyroid hormone receptor-associated protein 3	T 227	81% (14.02)	0.8070	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00045914	Msx2-interacting protein	T 1826	81% (9.42)	0.8056	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00183535	Isoform 1 of REST corepressor 3	T 163	80% (2.55)	0.8029	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00071185	Isoform SV1 of PITSLRE serine/threonine-protein kinase CDC2L1	T 582	80% (9.34)	0.8023	6	5	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0
IPI00071188	Isoform SV10 of PITSLRE serine/threonine-protein kinase CDC2L1	T 548	80% (9.34)	0.8023	6	5	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0
IPI00215999	Isoform SV9 of PITSLRE serine/threonine-protein kinase CDC2L1	T 595	80% (9.34)	0.8023	6	5	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0
IPI00218696	Isoform 4 of Caldesmon	T 533	80% (9.34)	0.8023	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00221394	H/ACA ribonucleoprotein complex subunit 4	T 496	80% (9.42)	0.8023	22	14	2	1	2	1	1	0	2	1	3	1	0	0	1	2	3	2	0	0	1	2	3	0	0	0	1	1	0	1	0	0	2	2	1	0	0	0	0	0
IPI00333771	Isoform 5 of Caldesmon	T 527	80% (9.34)	0.8023	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00185374	26S proteasome non-ATPase regulatory subunit 12	T 53	80% (12.16)	0.8020	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
IPI00045360	Protein capicua homolog	T 1398	80% (6.47)	0.8014	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218753	Isoform 3 of DNA topoisomerase 2-alpha	T 1506	80% (5.31)	0.7988	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218754	Isoform 4 of DNA topoisomerase 2-alpha	T 1551	80% (5.31)	0.7988	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00414101	Isoform 2 of DNA topoisomerase 2-alpha	T 1497	80% (5.31)	0.7988	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00478232	Isoform 1 of DNA topoisomerase 2-alpha	T 1507	80% (5.31)	0.7988	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022970	Nucleoprotein TPR	T 765	80% (2.99)	0.7986	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00107745	Isoform 1 of Cisplatin resistance-associated overexpressed protein	T 429	80% (14.19)	0.7976	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00183002	Isoform 1 of Protein phosphatase 1 regulatory subunit 12A	T 859	80% (12.83)	0.7962	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00397728	Isoform 2 of Protein phosphatase 1 regulatory subunit 12A	T 859	80% (12.83)	0.7962	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00397730	Isoform 4 of Protein phosphatase 1 regulatory subunit 12A	T 800	80% (12.83)	0.7962	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413191	Isoform 3 of Protein phosphatase 1 regulatory subunit 12A	T 803	80% (12.83)	0.7962	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00290032	Transient receptor potential cation channel subfamily M member 7	T 1505	79% (9.11)	0.7932	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00032342	Thyroid receptor-interacting protein 12	T 941	79% (9.11)	0.7932	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00012074	Heterogeneous nuclear ribonucleoprotein R	T 32	79% (9.89)	0.7925	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00017451	Splicing factor 3 subunit 1	T 383	79% (2.87)	0.7892	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00719818	nucleolar protein 5A	T 538	79% (6.59)	0.7891	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00028122	Isoform 1 of PC4 and SFRS1-interacting protein	T 272	79% (8.22)	0.7887	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00302829	Retinoblastoma-associated protein	T 905	79% (1.76)	0.7875	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00008918	Isoform Beta of LIM domain and actin-binding protein 1	T 487	78% (2.81)	0.7845	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
IPI00216046	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin a1 isoform a	T 118	78% (9.16)	0.7834	5	1	0	3	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00552298	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin a1 isoform b	T 118	78% (9.16)	0.7834	5	1	0	3	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No. SNU 216	Total No. SNU 216LR	SNU216 1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	SNU216-LR 1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00643568	120 kDa protein	T 118	78% (9.16)	0.7834	5	1	0	3	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00646130	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 1	T 118	78% (9.16)	0.7834	5	1	0	3	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00647510	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 1	T 97	78% (9.16)	0.7834	5	1	0	3	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00219841	DNA ligase 1	T 918	78% (11.06)	0.7820	2	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00015799	Diacylglycerol O-acyltransferase 1	T 12	78% (8.80)	0.7806	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00735571	PREDICTED: similar to Diacylglycerol O-acyltransferase 1 (Diglyceride acyltransferase) (ACAT-related gene	T 12	78% (8.80)	0.7806	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00735599	diacylglycerol O-acyltransferase 1	T 12	78% (8.80)	0.7806	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00735615	PREDICTED: similar to Diacylglycerol O-acyltransferase 1 (Diglyceride acyltransferase) (ACAT-related gene	T 12	78% (8.80)	0.7806	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00736405	PREDICTED: similar to Diacylglycerol O-acyltransferase 1 (Diglyceride acyltransferase) (ACAT-related gene	T 12	78% (8.80)	0.7806	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00017648	Lactase-phlorizin hydrolase precursor	T 1360	78% (10.34)	0.7777	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00604789	lactase-phlorizin hydrolase preproprotein	T 1360	78% (10.34)	0.7777	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00012074	Heterogeneous nuclear ribonucleoprotein R	T 25	78% (9.55)	0.7774	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00748920	splicing coactivator subunit SRm300	T 400	77% (9.80)	0.7747	4	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00221325	Ran-binding protein 2	T 2005	77% (10.22)	0.7729	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00297160	CD44 antigen isoform 4 precursor	T 339	77% (10.14)	0.7694	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
IPI00305064	Isoform CD44 of CD44 antigen precursor	T 720	77% (10.14)	0.7694	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
IPI00418465	CD44 antigen isoform 2 precursor	T 677	77% (10.14)	0.7694	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
IPI00419219	CD44 antigen isoform 3 precursor	T 471	77% (10.14)	0.7694	3	3	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
IPI00292537	nuclear factor kappa-B, subunit 1	T 940	76% (12.16)	0.7647	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00217468	Histone H1.5	T 8	76% (8.22)	0.7636	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
IPI00290410	Acidic 82 kDa protein mRNA	T 131	76% (19.86)	0.7626	3	4	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	2	0	0	0	0
IPI00328798	DLNB11 protein	T 946	76% (11.12)	0.7575	1	5	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
IPI00219798	Isoform 1 of Roundabout homolog 1 precursor	T 942	76% (11.01)	0.7559	3	5	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00418121	Isoform 2 of Roundabout homolog 1 precursor	T 946	76% (11.01)	0.7559	3	5	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00418122	Isoform 3 of Roundabout homolog 1 precursor	T 906	76% (11.01)	0.7559	3	5	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00740934	PREDICTED: similar to roundabout 1 isoform b	T 906	76% (11.01)	0.7559	3	5	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00010700	Isoform 1 of Large proline-rich protein BAT2	T 807	76% (8.22)	0.7553	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
IPI00084746	229 kDa protein	T 807	76% (8.22)	0.7553	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
IPI00376933	HLA-B associated transcript-2 isoform b	T 795	76% (8.22)	0.7553	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
IPI00742934	HLA-B associated transcript-2 isoform a	T 807	76% (8.22)	0.7553	3	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
IPI00032342	Thyroid receptor-interacting protein 12	T 1377	75% (5.84)	0.7529	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00396057	Isoform C of Protein C9orf10	T 428	75% (10.92)	0.7517	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00743942	Similar to C90rf10-like protein	T 427	75% (10.92)	0.7517	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00171252	enhancer of zeste 2 isoform b	T 347	75% (9.55)	0.7497	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00376787	enhancer of zeste 2 isoform a	T 391	75% (9.55)	0.7497	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010746	Phosphatidylserine synthase 1	T 436	75% (8.10)	0.7458	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00328905	185 kDa protein	T 1428	74% (5.67)	0.7438	4	2	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00514068	Ras GTPase-activating-like protein IQGAP3	T 1426	74% (5.67)	0.7438	4	2	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00746773	IQ motif containing GTPase activating protein 3	T 1383	74% (5.67)	0.7438	4	2	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00307733	huntingtin interacting protein B	T 246	74% (7.91)	0.7407	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00442150	CDNA FLJ16420 fis, clone BRACE3003053. (Fragment)	T 749	74% (7.91)	0.7407	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00395337	Isoform 1 of Pre-mRNA 3'-end-processing factor FIP1	T 494	74% (6.67)	0.7403	9	4	0	0	0	0	0	0	1	2	1	0	0	0	2	1	2	0	0	0	0	0	1	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0
IPI00018963	Isoform 1 of Alpha-parvin	T 16	74% (9.42)	0.7384	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00011875	Protein Red	T 42	74% (7.84)	0.7377	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00744288	Isoform 5 of C-jun-amino-terminal kinase-interacting protein 4	T 261	74% (12.31)	0.7373	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00465050	Isoform C of Lethal(2) giant larvae protein homolog 2	T 963	73% (8.26)	0.7346	3	3	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00641801	Isoform A of Lethal(2) giant larvae protein homolog 2	T 963	73% (8.26)	0.7346	3	3	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00333010	SR-related CTD associated factor 6	T 819	73% (16.65)	0.7345	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00642935	Calcium homeostasis endoplasmic reticulum protein	T 787	73% (16.65)	0.7345	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00290460	Eukaryotic translation initiation factor 3 subunit 4	T 41	73% (5.47)	0.7331	7	10	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	1	3	0	0	0	0	2	2	0	0	0	0	1	1	0	0
IPI00410330	Isoform 1 of Transcriptional repressor p66 alpha	T 188	73% (11.36)	0.7292	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00444526	Isoform 2 of Transcriptional repressor p66 alpha	T 188	73% (11.36)	0.7292	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00478128	GATA zinc finger domain containing 2A	T 207	73% (11.36)	0.7292	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010252	Isoform Alpha of Transcription intermediary factor 1-gamma	T 1102	73% (6.67)	0.7285	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00221114	Isoform Beta of Transcription intermediary factor 1-gamma	T 1085	73% (6.67)	0.7285	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00651651	tripartite motif-containing 33 protein isoform beta	T 1085	73% (6.67)	0.7285	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00163420	Isoform 3 of Receptor-type tyrosine-protein phosphatase alpha precursor	T 464	73% (10.14)	0.7273	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00304030	Isoform 4 of Receptor-type tyrosine-protein phosphatase alpha precursor	T 455	73% (10.14)	0.7273	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00427522	Isoform 1 of Peroxisome proliferator-activated receptor-binding protein	T 1215	73% (5.37)	0.7273	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00009146	FLN29 gene product	T 414	72% (5.31)	0.7241	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
IPI00024773	Isoform 1 of FERM, RhoGEF and pleckstrin domain-containing protein 1	T 24	72% (5.31)	0.7241	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00746455	Isoform 2 of FERM, RhoGEF and pleckstrin domain-containing protein 1	T 24	72% (5.31)	0.7241	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00180292	Isoform 5 of Brain-specific angiogenesis inhibitor 1-associated protein 2	T 360	72% (9.12)	0.7232	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00185159	Isoform 4 of Brain-specific angiogenesis inhibitor 1-associated protein 2	T 360	72% (9.12)	0.7232	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00299088	Isoform 1 of Brain-specific angiogenesis inhibitor 1-associated protein 2	T 360	72% (9.12)	0.7232	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00644120	Isoform 2 of Brain-specific angiogenesis inhibitor 1-associated protein 2	T 360	72% (9.12)	0.7232	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00647603	Isoform 3 of Brain-specific angiogenesis inhibitor 1-associated protein 2	T 360	72% (9.12)	0.7232	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00289334	Isoform 1 of Filamin-B	T 519	72% (9.11)	0.7228	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00382696	Isoform 2 of Filamin-B	T 519	72% (9.11)	0.7228	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00411559	Isoform 1 of Structural maintenance of chromosomes 4-like 1 protein	T 39	72% (9.11)	0.7228	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
IPI00335634	Isoform Beta of Paxillin	T 318	72% (9.49)	0.7215	2	3	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0
IPI00013214	DNA replication licensing factor MCM3	T 713	72% (7.94)	0.7213	3	3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00419933	Pleckstrin homology domain containing, family A member 2	T 870	72% (10.89)	0.7209	1	4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0
IPI00064767	nadrin isoform 1	T 682	72% (11.08)	0.7165	8	12	1	1	1	0	0	0	0	0	1	0	0	0	1	2	1	0	0	0	1	1	0	0	0	0	1	2	1	0	0	1	1	2	1	0	0	1
IPI00001159	GCN1-like protein 1	T 920	72% (8.09)	0.7156	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	T 1839	71% (8.26)	0.7105	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00297254	Signal-induced proliferation-associated 1-like protein 3	T 1139	71% (8.77)	0.7064	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00386211	family with sequence similarity 44, member A	T 1529	71% (7.38)	0.7064	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00002214	Importin alpha-2 subunit	T 61	71% (7.21)	0.7062	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00017450	Transcription initiation factor IIF alpha subunit	T 445	71% (7.21)	0.7062	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00180154	Isoform 1 of Ataxin-2	T 772	71% (7.21)	0.7062	4	9	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	1	0	0	0	2	0	1	0	0	0
IPI00455359	Isoform 2 of Ataxin-2	T 770	71% (7.21)	0.7062	4	9	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	1	0	0	0	2	0	1	0	0	0
IPI00455363	Isoform 4 of Ataxin-2	T 770	71% (7.21)	0.7062	4	9	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	1	0	0	0	2	0	1	0	0	0
IPI00719520	ATXN2 protein (Fragment)	T 560	71% (7.21)	0.7062	4	9	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2	1	0	0	0	2	0	1	0	0	0
IPI00643352	nucleoporin 214kDa	T 439	71% (10.42)	0.7053	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00002564	DNA-repair protein XRCC1	T 453	70% (7.96)	0.7037	2	5	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00031627	DNA-directed RNA polymerase II largest subunit	T 1886	70% (11.06)	0.7021	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00016250	Fragile X mental retardation syndrome-related protein 2	T 598	70% (7.26)	0.7020	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00011253	40S ribosomal protein S3	T 220	70% (4.85)	0.6969	15	12	0	0	0	1	2	1	0	0	2	1	2	0	0	1	0	2	2	1	1	0	0	1	1	0	1	0	0	1	2	0	1	0	0	2	1	1
IPI00247674	PREDICTED: hypothetical protein XP_292820	T 211	69% (5.10)	0.6904	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00016006	Gephyrin	T 199	69% (4.64)	0.6893	2	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00184477	gephyrin isoform 1	T 199	69% (4.64)	0.6893	2	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00328905	185 kDa protein	T 510	69% (6.38)	0.6868	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514068	Ras GTPase-activating-like protein IQGAP3	T 510	69% (6.38)	0.6868	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746773	IQ motif containing GTPase activating protein 3	T 467	69% (6.38)	0.6868	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00162088	Isoform 1 of TNF receptor-associated factor 4	T 422	68% (8.77)	0.6828	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00740178	TRAF4 variant 4	T 80	68% (8.77)	0.6828	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00740195	TRAF4 variant 6	T 119	68% (8.77)	0.6828	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00740636	TRAF4 variant 3	T 96	68% (8.77)	0.6828	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00445401	Isoform 2 of HECT, UBA and WWE domain-containing protein 1	T 3911	68% (8.26)	0.6828	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00456919	Isoform 1 of HECT, UBA and WWE domain-containing protein 1	T 3927	68% (8.26)	0.6828	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00643153	Isoform 3 of HECT, UBA and WWE domain-containing protein 1	T 3918	68% (8.26)	0.6828	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00425404	Isoform 1 of Kinesin family member 21A	T 1242	68% (8.29)	0.6828	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00425405	Isoform 2 of Kinesin family member 21A	T 1229	68% (8.29)	0.6828	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00425407	Isoform 3 of Kinesin family member 21A	T 1243	68% (8.29)	0.6828	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00425409	Isoform 4 of Kinesin family member 21A	T 1242	68% (8.29)	0.6828	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00002186	Brefeldin A-inhibited guanine nucleotide-exchange protein 2	T 243	68% (9.42)	0.6804	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00018370	Isoform 2 of Supervillin	T 342	68% (9.42)	0.6804	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00386211	family with sequence similarity 44, member A	T 658	68% (8.22)	0.6781	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00555610	313 kDa protein	T 2800	68% (8.22)	0.6781	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00657953	triple functional domain	T 1899	68% (9.34)	0.6761	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00170865	Membrane-associated guanylate kinase-related 3	T 1375	68% (8.14)	0.6759	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00009326	65 kDa Yes-associated protein	T 110	67% (6.59)	0.6727	4	4	1	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	1	0	0	0
IPI00216919	YAP1 protein	T 110	67% (6.59)	0.6727	4	4	1	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	1	0	0	0
IPI00657687	Isoform 1 of Actin-binding protein anillin	T 364	67% (6.59)	0.6727	1	7	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0
IPI00743594	124 kDa protein	T 365	67% (6.59)	0.6727	1	7	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0
IPI00013485	40S ribosomal protein S2	T 293	67% (4.44)	0.6713	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00007935	PDZ and LIM domain protein 5	T 109	67% (4.44)	0.6713	4	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00181702	Isoform 1 of Splicing factor, arginine/serine-rich 15	T 237	67% (6.47)	0.6657	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00397794	Isoform 2 of Splicing factor, arginine/serine-rich 15	T 237	67% (6.47)	0.6657	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00012788	Isoform 2 of RNA polymerase I-associated factor PAF49	T 284	66% (7.97)	0.6649	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00645816	Isoform 1 of RNA polymerase I-associated factor PAF49	T 282	66% (7.97)	0.6649	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00478410	Isoform Liver of ATP synthase gamma chain, mitochondrial precursor	T 284	66% (4.30)	0.6623	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00337385	Isoform 1 of Pre-mRNA-processing factor 40 homolog A	T 932	66% (6.67)	0.6622	2	3	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00337386	Isoform 2 of Pre-mRNA-processing factor 40 homolog A	T 890	66% (6.67)	0.6622	2	3	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00337387	Isoform 3 of Pre-mRNA-processing factor 40 homolog A	T 914	66% (6.67)	0.6622	2	3	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00397509	Isoform 4 of Pre-mRNA-processing factor 40 homolog A	T 801	66% (6.67)	0.6622	2	3	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00033030	Adhesion-regulating molecule 1 precursor	T 217	66% (11.86)	0.6555	3	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00470921	Hypothetical protein DKFZp686G2045	T 197	66% (11.86)	0.6555	3	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00552897	Isoform 1 of Mediator of DNA damage checkpoint protein 1	T 404	65% (8.87)	0.6511	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641106	227 kDa protein	T 404	65% (8.87)	0.6511	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00012998	Isoform 1 of Cleavage and polyadenylation specificity factor 6	T 404	65% (4.12)	0.6505	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00030654	Isoform 2 of Cleavage and polyadenylation specificity factor 6	T 441	65% (4.12)	0.6505	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00647126	Isoform 3 of Cleavage and polyadenylation specificity factor 6	T 331	65% (4.12)	0.6505	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00298884	Putative RNA-binding protein 16	T 619	65% (12.90)	0.6469	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00744707	141 kDa protein	T 621	65% (12.90)	0.6469	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00301503	Isoform 1 of Arginine/serine-rich splicing factor 10	T 203	65% (16.81)	0.6459	7	8	0	0	1	1	1	0	0	0	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	0	1	0	0	1	1	0	0	0	0	1	1	0
IPI00555647	Splicing factor, arginine/serine-rich 10	T 203	65% (16.81)	0.6459	7	8	0	0	1	1	1	0	0	0	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	0	1	0	0	1	1	0	0	0	0	1	1	0
IPI00221325	Ran-binding protein 2	T 2504	65% (11.10)	0.6454	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218648	Isoform III of AT-rich interactive domain-containing protein 4A	T 575	64% (6.14)	0.6449	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218648	Isoform III of AT-rich interactive domain-containing protein 4A	T 577	64% (6.14)	0.6449	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00643014	retinoblastoma-associated factor 600	T 2884	64% (11.06)	0.6431	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00746934	574 kDa protein	T 2885	64% (11.06)	0.6431	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00302829	Retinoblastoma-associated protein	T 826	64% (6.07)	0.6429	2	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00008708	Ribosomal L1 domain-containing protein 1	T 358	64% (1.95)	0.6428	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00018914	Tyrosine-protein phosphatase non-receptor type 14	T 579	64% (6.05)	0.6420	4	1	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00103536	MAP-kinase activating death domain-containing protein isoform d	T 1061	64% (6.05)	0.6420	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00107838	MAP-kinase activating death domain-containing protein isoform a	T 1041	64% (6.05)	0.6420	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00107843	MAP-kinase activating death domain-containing protein isoform g	T 1061	64% (6.05)	0.6420	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00107844	MAP-kinase activating death domain-containing protein isoform a	T 1041	64% (6.05)	0.6420	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00237706	MAP-kinase activating death domain-containing protein isoform f	T 998	64% (6.05)	0.6420	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00292094	MAP-kinase activating death domain-containing protein isoform b	T 1018	64% (6.05)	0.6420	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00292095	MAP-kinase activating death domain-containing protein isoform e	T 1061	64% (6.05)	0.6420	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00376607	MAP-kinase activating death domain-containing protein isoform c	T 998	64% (6.05)	0.6420	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00027172	Isoform Long of Restin	T 351	64% (3.98)	0.6408	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00217113	Isoform Short of Restin	T 351	64% (3.98)	0.6408	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00656088	Isoform 1 of Ras-associated and pleckstrin homology domains-containing protein 1	T 127	64% (9.34)	0.6408	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00555610	313 kDa protein	T 2916	64% (10.83)	0.6381	5	4	1	0	0	0	0	0	0	0	0	1	1	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0
IPI00234252	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily C member 1	T 398	63% (7.38)	0.6320	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00556118	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin c1	T 398	63% (7.38)	0.6320	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00001754	Junctional adhesion molecule A precursor	T 136	63% (10.95)	0.6304	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00069985	28 kDa protein	T 97	63% (10.95)	0.6304	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00294993	F11 receptor isoform b	T 96	63% (10.95)	0.6304	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00178047	Proline and glutamic acid rich nuclear protein isoform	T 657	63% (11.33)	0.6290	2	2	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00103536	MAP-kinase activating death domain-containing protein isoform d	T 1237	63% (10.14)	0.6289	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00107838	MAP-kinase activating death domain-containing protein isoform a	T 1199	63% (10.14)	0.6289	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00107843	MAP-kinase activating death domain-containing protein isoform g	T 1237	63% (10.14)	0.6289	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00107844	MAP-kinase activating death domain-containing protein isoform a	T 1199	63% (10.14)	0.6289	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00237706	MAP-kinase activating death domain-containing protein isoform f	T 1156	63% (10.14)	0.6289	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00292094	MAP-kinase activating death domain-containing protein isoform b	T 1176	63% (10.14)	0.6289	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00292095	MAP-kinase activating death domain-containing protein isoform e	T 1219	63% (10.14)	0.6289	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00376607	MAP-kinase activating death domain-containing protein isoform c	T 1156	63% (10.14)	0.6289	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00069817	Isoform 1 of Bromodomain adjacent to zinc finger domain protein 1B	T 768	63% (5.71)	0.6256	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00216695	Isoform 2 of Bromodomain adjacent to zinc finger domain protein 1B	T 764	63% (5.71)	0.6256	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00377154	bromodomain adjacent to zinc finger domain, 1B	T 768	63% (5.71)	0.6256	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00004671	Golgin subfamily B member 1	T 2871	62% (7.21)	0.6226	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00019447	hypothetical protein LOC55215	T 406	62% (7.21)	0.6226	3	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00301844	Zinc finger and homeobox protein 3	T 944	62% (7.21)	0.6226	2	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00477345	CDNA FLJ14658 fis, clone NT2RP2002549	T 44	62% (7.21)	0.6226	3	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00645281	OTTHUMP00000031007	T 653	62% (7.21)	0.6226	2	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00166512	stromal interaction molecule 1 precursor	T 517	62% (8.26)	0.6176	3	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00299063	Stromal interaction molecule 1 precursor	T 517	62% (8.26)	0.6176	3	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00168459	Isoform 2 of Pleckstrin homology-like domain family B member 2	T 548	62% (8.26)	0.6176	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00410259	Isoform 1 of Pleckstrin homology-like domain family B member 2	T 548	62% (8.26)	0.6176	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00657763	Isoform 3 of Pleckstrin homology-like domain family B member 2	T 575	62% (8.26)	0.6176	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00024062	Band 4.1-like protein 1	T 79	62% (8.22)	0.6153	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00026089	Splicing factor 3B subunit 1	T 350	62% (8.22)	0.6153	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00644651	EPB41L1 protein	T 79	62% (8.22)	0.6153	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218729	Isoform 2 of Disks large homolog 1	T 697	61% (11.10)	0.6146	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00552511	Isoform 4 of Disks large homolog 1	T 664	61% (11.10)	0.6146	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00015952	Eukaryotic translation initiation factor 4 gamma 2	T 385	61% (5.59)	0.6140	3	8	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	1	1	0	0	1	0	0	1	0	0
IPI00306280	Density-regulated protein	T 70	61% (5.59)	0.6140	2	3	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00748920	splicing coactivator subunit SRm300	T 983	61% (10.63)	0.6139	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00000875	Elongation factor 1-gamma	T 42	61% (5.16)	0.6121	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00747497	50 kDa protein	T 42	61% (5.16)	0.6121	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00219018	Glyceraldehyde-3-phosphate dehydrogenase	T 183	61% (6.13)	0.6117	6	4	1	0	0	1	0	0	1	0	1	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0
IPI00069817	Isoform 1 of Bromodomain adjacent to zinc finger domain protein 1B	T 710	61% (3.13)	0.6111	4	1	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216695	Isoform 2 of Bromodomain adjacent to zinc finger domain protein 1B	T 706	61% (3.13)	0.6111	4	1	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00377154	bromodomain adjacent to zinc finger domain, 1B	T 710	61% (3.13)	0.6111	4	1	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00302592	Filamin A, alpha	T 859	61% (8.14)	0.6105	2	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00333541	Filamin-A	T 858	61% (8.14)	0.6105	2	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00444371	WD repeat domain 44 protein	T 349	61% (9.00)	0.6085	3	3	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0
IPI00552345	WD repeat domain 44	T 349	61% (9.00)	0.6085	3	3	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0
IPI00747740	Hypothetical protein DKFZp686F0572	T 351	61% (9.00)	0.6085	3	3	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0
IPI00644591	hypothetical protein LOC64423 isoform 2	T 654	61% (5.47)	0.6069	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00022479	guanine nucleotide exchange factor p532	T 2746	61% (5.47)	0.6069	4	3	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00427522	Isoform 1 of Peroxisome proliferator-activated receptor-binding protein	T 1051	61% (3.48)	0.6061	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00028392	specifically androgen-regulated protein	T 456	60% (7.97)	0.6011	2	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	T 1640	60% (12.52)	0.5996	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	T 1645	60% (12.52)	0.5996	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005146	Hypothetical protein A-362G6.1	T 1151	60% (3.26)	0.5976	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00744288	Isoform 5 of C-jun-amino-terminal kinase-interacting protein 4	T 931	60% (0.00)	0.5969	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00411984	Serine/threonine-protein kinase 3	T 384	60% (5.31)	0.5968	2	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00449923	Isoform 1 of Retinoic acid-induced protein 1	T 1136	60% (5.84)	0.5968	6	3	2	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
IPI00449924	Isoform 2 of Retinoic acid-induced protein 1	T 1089	60% (5.84)	0.5968	6	3	2	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
IPI00647688	198 kDa protein	T 1087	60% (5.84)	0.5968	6	3	2	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
IPI00015952	Eukaryotic translation initiation factor 4 gamma 2	T 506	59% (9.16)	0.5876	3	3	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
IPI00375330	wings apart-like homolog	T 411	59% (6.59)	0.5862	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00412441	Hypothetical protein KIAA0261	T 496	59% (6.59)	0.5862	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00744918	FOE	T 455	59% (6.59)	0.5862	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00149098	Isoform 2 of Transcription initiation factor TFIID subunit 1	T 542	59% (8.73)	0.5862	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	T 919	59% (4.87)	0.5860	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	T 924	59% (4.87)	0.5860	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00065931	A-kinase anchor protein 13 isoform 1	T 2283	58% (4.85)	0.5791	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00000192	Isoform F of SON protein	T 282	58% (6.47)	0.5788	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00217930	Isoform J of SON protein	T 282	58% (6.47)	0.5788	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218617	SON protein	T 282	58% (6.47)	0.5788	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218619	Isoform C of SON protein	T 282	58% (6.47)	0.5788	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218620	Isoform D of SON protein	T 282	58% (6.47)	0.5788	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218622	Isoform G of SON protein	T 282	58% (6.47)	0.5788	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218624	Isoform I of SON protein	T 282	58% (6.47)	0.5788	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00382737	SON DNA-binding protein isoform G	T 282	58% (6.47)	0.5788	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00401958	SON DNA-binding protein isoform C	T 282	58% (6.47)	0.5788	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00027157	CENP-F kinetochore protein	T 3177	57% (4.84)	0.5745	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00006937	Ubiquitin-conjugating enzyme E2 J1	T 267	57% (5.60)	0.5706	6	9	0	0	0	1	0	0	0	0	0	1	1	0	0	0	1	1	1	0	0	0	1	1	0	1	0	0	0	2	1	0	0	0	1	2	0
IPI00472779	Ankyrin-3	T 2186	57% (6.29)	0.5685	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00478210	ankyrin 3 isoform 1	T 2186	57% (6.29)	0.5685	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00550821	Isoform 1 of Cleavage and polyadenylation specificity factor 7	T 203	57% (8.26)	0.5655	2	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00719106	Isoform 2 of Cleavage and polyadenylation specificity factor 7	T 194	57% (8.26)	0.5655	2	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00413734	Isoform 6 of Transcriptional regulator ATRX	T 1921	57% (6.84)	0.5653	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00157442	Rho guanine nucleotide exchange factor 11	T 254	57% (3.44)	0.5650	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00377085	Rho guanine nucleotide exchange factor (GEF) 11 isoform 2	T 294	57% (3.44)	0.5650	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514608	172 kDa protein	T 293	57% (3.44)	0.5650	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00007183	Hypothetical protein ARL6IP2	T 23	56% (10.17)	0.5625	4	1	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00169267	ARL6IP2	T 23	56% (10.17)	0.5625	4	1	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00026219	Cleavage and polyadenylation specificity factor, 160 kDa subunit	T 736	56% (10.14)	0.5606	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00643923	PREDICTED: similar to HLA-B associated transcript-2 isoform a isoform 10	T 1134	56% (4.64)	0.5605	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00741537	PREDICTED: hypothetical protein LOC84726 isoform 1	T 1134	56% (4.64)	0.5605	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	T 1043	56% (8.14)	0.5582	4	2	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00291175	Isoform 1 of Vinculin	T 601	56% (7.21)	0.5568	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00307162	vinculin isoform meta-VCL	T 602	56% (7.21)	0.5568	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00010486	Isoform 1 of Hermansky-Pudlak syndrome 5 protein	T 938	55% (0.00)	0.5519	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00418313	Isoform 4 of Interleukin enhancer-binding factor 3	T 469	55% (2.74)	0.5510	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022970	Nucleoprotein TPR	T 1673	55% (8.41)	0.5499	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00002054	132 kDa protein	T 206	55% (10.31)	0.5491	2	4	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
IPI00552897	Isoform 1 of Mediator of DNA damage checkpoint protein 1	T 1567	55% (7.97)	0.5485	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641106	227 kDa protein	T 1567	55% (7.97)	0.5485	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00001735	nuclear receptor co-repressor 2	T 2155	54% (5.84)	0.5408	1	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00432363	Microtubule-actin crosslinking factor 1, isoform 4	T 440	54% (6.94)	0.5354	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00478739	microfilament and actin filament cross-linker protein isoform b	T 440	54% (6.94)	0.5354	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00514468	670 kDa protein	T 440	54% (6.94)	0.5354	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00328089	Kappa B and V(D)J recombination signal sequences binding protein	T 1008	53% (3.53)	0.5317	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00002580	Phosphatidylinositol-4-phosphate 3-kinase C2 domain-containing alpha polypeptide	T 1622	53% (5.57)	0.5266	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00291175	Isoform 1 of Vinculin	T 602	53% (6.70)	0.5262	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00307162	vinculin isoform meta-VCL	T 603	53% (6.70)	0.5262	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00004233	Isoform Long of Antigen KI-67	T 2508	52% (8.26)	0.5215	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00301293	antigen identified by monoclonal antibody Ki-67	T 2508	52% (8.26)	0.5215	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00005146	Hypothetical protein A-362G6.1	T 1142	52% (2.29)	0.5196	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00018274	Isoform 1 of Epidermal growth factor receptor precursor	T 993	52% (6.93)	0.5196	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00174962	Molecule interacting with Rab13	T 469	52% (6.59)	0.5195	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00007277	LRR FLI-I interacting protein 2	T 331	52% (8.21)	0.5186	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005024	Isoform 1 of Myb-binding protein 1A	T 1239	52% (5.47)	0.5178	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00032872	28S ribosomal protein S16, mitochondrial precursor	T 130	52% (7.43)	0.5178	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00607584	Isoform 2 of Myb-binding protein 1A	T 1239	52% (5.47)	0.5178	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00410693	Isoform 1 of Plasminogen activator inhibitor 1 RNA-binding protein	T 232	52% (10.00)	0.5176	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	0	0	0	1	0	0	0	0	0
IPI00470497	Isoform 2 of Plasminogen activator inhibitor 1 RNA-binding protein	T 226	52% (10.00)	0.5176	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	0	0	0	1	0	0	0	0	0
IPI00010105	Eukaryotic translation initiation factor 6	T 245	52% (7.43)	0.5163	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00011875	Protein Red	T 48	52% (5.17)	0.5151	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00643923	PREDICTED: similar to HLA-B associated transcript-2 isoform a isoform 10	T 225	51% (8.14)	0.5141	6	1	1	0	0	0	0	0	1	1	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00741537	PREDICTED: hypothetical protein LOC84726 isoform 1	T 225	51% (8.14)	0.5141	6	1	1	0	0	0	0	0	1	1	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00295774	Solute carrier family 23 member 2	T 79	51% (6.47)	0.5120	2	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00552917	OTTHUMP00000030176	T 79	51% (6.47)	0.5120	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00021076	Isoform Long of Plakophilin-4	T 462	51% (3.98)	0.5100	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00100041	Isoform 1 of Lethal(3)malignant brain tumor-like 2 protein	T 66	51% (3.98)	0.5100	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00217240	WD-repeat protein 75	T 795	51% (3.98)	0.5100	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00334400	Isoform Short of Plakophilin-4	T 462	51% (3.98)	0.5100	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00412415	Isoform 1 of Bromodomain adjacent to zinc finger domain protein 1A	T 1547	51% (3.98)	0.5100	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00743026	179 kDa protein	T 1548	51% (3.98)	0.5100	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00747119	plakophilin 4 isoform b	T 462	51% (3.98)	0.5100	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00296432	Isoform 1 of IWS1-like protein	T 435	51% (6.26)	0.5075	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00149098	Isoform 2 of Transcription initiation factor TFIID subunit 1	T 1175	50% (14.02)	0.5039	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00386808	HDAC7A protein	T 358	50% (6.05)	0.5018	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00418482	Histone deacetylase	T 395	50% (6.05)	0.5018	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00743474	Isoform 1 of Histone deacetylase 7a	T 356	50% (6.05)	0.5018	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00749076	Isoform 3 of Histone deacetylase 7a	T 326	50% (6.05)	0.5018	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00425560	Isoform 1 of LAP4 protein	T 1560	50% (10.14)	0.5017	8	7	1	0	0	1	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	0	1	0	0	0	3	0	0	0	0	0	0
IPI00425566	Isoform 4 of LAP4 protein	T 1584	50% (10.14)	0.5017	8	7	1	0	0	1	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	0	1	0	0	0	3	0	0	0	0	0	0
IPI00552897	Isoform 1 of Mediator of DNA damage checkpoint protein 1	T 1157	50% (10.48)	0.5017	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00641106	227 kDa protein	T 1157	50% (10.48)	0.5017	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00158615	Isoform 1 of THO complex subunit 2	T 1212	50% (0.00)	0.5013	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00032064	Isoform A of A-kinase anchor protein 2	T 1012	50% (6.71)	0.5006	1	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	1	0	0	1	0	1	2	0	
IPI00171217	Isoform B of A-kinase anchor protein 2	T 1012	50% (6.71)	0.5006	1	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	1	0	0	1	0	1	2	0	
IPI00465433	A kinase (PRKA) anchor protein 2	T 870	50% (6.71)	0.5006	1	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	1	0	0	1	0	1	2	0	
IPI00640055	Novel protein	T 737	50% (0.00)	0.5000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00006099	Ribosome biogenesis protein BMS1 homolog	T 638	50% (0.00)	0.5000	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010700	Isoform 1 of Large proline-rich protein BAT2	T 609	50% (0.00)	0.5000	2	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00024167	ABT1-associated protein	T 693	50% (0.00)	0.5000	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00031605	AHNAK nucleoprotein, isoform 2	T 39	50% (0.00)	0.5000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
IPI00084746	229 kDa protein	T 609	50% (0.00)	0.5000	2	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00296421	PREDICTED: EH domain binding protein 1-like 1 isoform 1	T 284	50% (0.00)	0.5000	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
IPI00303343	Serine arginine-rich pre-mRNA splicing factor SR-A1	T 976	50% (0.00)	0.5000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00376933	HLA-B associated transcript-2 isoform b	T 597	50% (0.00)	0.5000	2	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00742934	HLA-B associated transcript-2 isoform a	T 609	50% (0.00)	0.5000	2	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00744900	160 kDa protein	T 271	50% (0.00)	0.5000	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
IPI00006079	Isoform 1 of Bcl-2-associated transcription factor 1	T 190	50% (5.45)	0.4990	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00413671	Isoform 2 of Bcl-2-associated transcription factor 1	T 188	50% (5.45)	0.4990	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00413672	Isoform 3 of Bcl-2-associated transcription factor 1	T 188	50% (5.45)	0.4990	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00181396	VPRBP protein	T 556	50% (6.72)	0.4975	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00329528	Hypothetical protein	T 1002	50% (6.72)	0.4975	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00006987	ATP-dependent RNA helicase DDX24	T 302	50% (6.10)	0.4957	2	4	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0
IPI00011891	protein kinase, AMP-activated, alpha 1 catalytic subunit isoform 1	T 355	49% (5.08)	0.4934	6	5	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0
IPI00410287	protein kinase, AMP-activated, alpha 1 catalytic subunit isoform 2	T 370	49% (5.08)	0.4934	6	5	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0
IPI00221325	Ran-binding protein 2	T 2613	49% (7.67)	0.4898	5	6	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0
IPI00329573	Isoform Long of Collagen alpha-1(XII) chain precursor	T 856	49% (10.15)	0.4895	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641961	Collagen, type XII, alpha 1	T 856	49% (10.15)	0.4895	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00745263	collagen, type XII, alpha 1 long isoform precursor	T 856	49% (10.15)	0.4895	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00186028	Hypothetical protein DKFZp434A112	T 853	49% (2.24)	0.4879	3	2	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00748953	110 kDa protein	T 855	49% (2.24)	0.4879	3	2	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00021595	Glucocorticoid induced transcript 1	T 81	49% (8.26)	0.4872	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00411559	Isoform 1 of Structural maintenance of chromosomes 4-like 1 protein	T 44	49% (4.97)	0.4859	2	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00298696	Treacle protein	T 594	49% (5.31)	0.4859	0	* 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00747047	Treacle major isoform	T 671	49% (5.31)	0.4859	0	* 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00289776	Isoform 1 of Probable ubiquitin ligase protein MYCBP2	T 2837	48% (8.26)	0.4825	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00607852	Isoform 2 of Probable ubiquitin ligase protein MYCBP2	T 2837	48% (8.26)	0.4825	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00298738	DNA-directed RNA polymerase, mitochondrial precursor	T 1150	48% (3.53)	0.4821	* 1	* 1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00556594	Isoform 1 of Zinc finger CCHC domain-containing protein 8	T 655	48% (4.85)	0.4784	* 1	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00183794	zinc finger protein 265 isoform 2	T 303	48% (2.83)	0.4755	* 1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00021275	Isoform 1 of Ephrin type-B receptor 2 precursor	T 775	47% (5.84)	0.4741	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00219421	Isoform 2 of Ephrin type-B receptor 2 precursor	T 775	47% (5.84)	0.4741	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00252979	Isoform 3 of Ephrin type-B receptor 2 precursor	T 776	47% (5.84)	0.4741	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00644408	Ephrin receptor	T 770	47% (5.84)	0.4741	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00289608	Isoform 2 of AP-3 complex subunit delta-1	T 737	47% (3.44)	0.4737	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00719680	Isoform 5 of AP-3 complex subunit delta-1	T 826	47% (3.44)	0.4737	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216219	Isoform Long of Tight junction protein ZO-1	T 354	47% (3.44)	0.4737	* 6	* 3	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00171422	CDNA PSEC0094 fis, clone NT2RP2001499, weakly similar to PROTEIN PTM1	T 432	47% (2.39)	0.4724	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220845	Isoform Beta-4A of Integrin beta-4 precursor	T 1401	47% (6.67)	0.4711	* 2	* 1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220847	Isoform Beta-4D of Integrin beta-4 precursor	T 1401	47% (6.67)	0.4711	* 2	* 1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00332106	Pre-B-cell leukemia transcription factor interacting protein 1	T 47	47% (5.55)	0.4691	* 1	* 2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00645060	Pre-B-cell leukemia transcription factor interacting protein 1	T 18	47% (5.55)	0.4691	* 1	* 2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00604756	Nuclear receptor-binding protein	T 431	46% (3.67)	0.4640	* 2	* 2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00418313	Isoform 4 of Interleukin enhancer-binding factor 3	T 486	46% (6.45)	0.4582	* 6	* 5	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0
IPI00293884	Kinesin-like protein KIF23	T 809	46% (3.13)	0.4564	* 1	* 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00002188	Brefeldin A-inhibited guanine nucleotide-exchange protein 1	T 1564	46% (7.79)	0.4563	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	T 1222	45% (7.60)	0.4538	* 1	* 2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00221325	Ran-binding protein 2	T 1156	45% (2.15)	0.4536	* 2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00305068	U5 snRNP-associated 102 kDa protein	T 275	45% (3.13)	0.4524	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00394829	hypothetical protein LOC286077	T 883	45% (3.13)	0.4524	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	T 833	45% (8.26)	0.4512	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00292009	palladin	T 643	44% (8.26)	0.4394	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00065931	A-kinase anchor protein 13 isoform 1	T 953	44% (4.23)	0.4393	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00335641	Isoform 1 of MKL/myocardin-like protein 2	T 844	44% (5.26)	0.4383	* 2	* 3	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0	0
IPI00418489	Isoform 4 of MKL/myocardin-like protein 2	T 805	44% (5.26)	0.4383	* 2	* 3	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0	0
IPI00328307	Long chain polyunsaturated fatty acid elongation enzyme	T 281	44% (3.33)	0.4356	* 1	* 1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00166487	Isoform 3 of Protein KIAA0310	T 415	43% (6.59)	0.4343	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219314	Isoform 2 of Protein KIAA0310	T 415	43% (6.59)	0.4343	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641384	Isoform 1 of Protein KIAA0310	T 415	43% (6.59)	0.4343	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00100106	resistance to inhibitors of cholinesterase 8 homolog A	T 449	43% (9.30)	0.4324	* 1	* 2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00300384	Receptor tyrosine-protein kinase erbB-2 precursor	T 1052	43% (0.99)	0.4296	* 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00654851	erbB-2 isoform b	T 1022	43% (0.99)	0.4296	* 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00302592	Filamin A, alpha	T 2531	43% (6.67)	0.4277	* 4	* 3	0	0	1	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00333541	Filamin-A	T 2538	43% (6.67)	0.4277	* 4	* 3	0	0	1	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	T 348	43% (9.42)	0.4268	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00299608	Isoform 1 of 26S proteasome non-ATPase regulatory subunit 1	T 273	43% (6.63)	0.4254	* 3	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00015973	Band 4.1-like protein 2	T 686	42% (6.04)	0.4238	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00456970	Isoform 1 of Cell division cycle 2-like protein kinase 5	T 496	42% (8.26)	0.4228	* 1	* 1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00448767	Growth factor receptor-bound protein 7	T 406	42% (5.02)	0.4217	* 1	* 3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00009917	Isoform 3 of LAS1-like protein	T 554	42% (8.26)	0.4214	* 2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641990	Isoform 1 of LAS1-like protein	T 613	42% (8.26)	0.4214	* 2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00645869	Isoform 2 of LAS1-like protein	T 596	42% (8.26)	0.4214	* 2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00744288	Isoform 5 of C-jun-amino-terminal kinase-interacting protein 4	T 316	42% (6.55)	0.4207	* 1	* 2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00071185	Isoform SV1 of PITSLRE serine/threonine-protein kinase CDC2L1	T 738	42% (2.61)	0.4174	* 1	* 1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00071188	Isoform SV10 of PITSLRE serine/threonine-protein kinase CDC2L1	T 704	42% (2.61)	0.4174	* 1	* 1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00215999	Isoform SV9 of PITSLRE serine/threonine-protein kinase CDC2L1	T 751	42% (2.61)	0.4174	* 1	* 1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00016006	Gephyrin	T 205	42% (2.49)	0.4167	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00184477	gephyrin isoform 1	T 205	42% (2.49)	0.4167	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00395337	Isoform 1 of Pre-mRNA 3'-end-processing factor FIP1	T 68	42% (2.75)	0.4159	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00027280	Isoform Beta-2 of DNA topoisomerase 2-beta	T 1575	42% (5.67)	0.4157	* 2	* 3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
IPI00217709	Isoform Beta-1 of DNA topoisomerase 2-beta	T 1570	42% (5.67)	0.4157	* 2	* 3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
IPI00166680	Isoform 3 of Misshapen-like kinase 1	T 865	42% (8.50)	0.4154	* 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00009326	65 kDa Yes-associated protein	T 63	41% (0.00)	0.4092	* 1	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00216919	YAP1 protein	T 63	41% (0.00)	0.4092	* 1	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00299463	Nibrin	T 434	41% (6.12)	0.4080	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00607775	nibrin isoform 2	T 352	41% (6.12)	0.4080	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00002186	Brefeldin A-inhibited guanine nucleotide-exchange protein 2	T 281	41% (4.75)	0.4077	* 3	* 4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00064666	Protein FAM84B	T 289	41% (0.00)	0.4076	* 2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00384176	Isoform 1 of Protein polybromo-1	T 9	41% (8.85)	0.4073	* 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00022970	Nucleoprotein TPR	T 1667	40% (6.37)	0.4038	* 1	* 1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00027152	Centromere protein A	T 23	40% (2.29)	0.4037	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00386842	CENPA protein	T 23	40% (2.29)	0.4037	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010951	Epiplakin	T 2157	40% (4.67)	0.4032	* 1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022827	Isoform 1 of STE20-like serine/threonine-protein kinase	T 569	40% (6.93)	0.4026	* 1	* 2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0
IPI00017184	EH-domain-containing protein 1	T 454	40% (5.55)	0.4014	* 1	* 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
IPI00005688	Zinc finger protein 185	T 281	40% (4.64)	0.4010	* 1	* 4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0
IPI00005024	Isoform 1 of Myb-binding protein 1A	T 16	40% (7.95)	0.3987	* 1	* 1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00607584	Isoform 2 of Myb-binding protein 1A	T 16	40% (7.95)	0.3987	* 1	* 1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005688	Zinc finger protein 185	T 19	40% (4.44)	0.3985	* 2	* 1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00384541	Novel protein	T 732	40% (7.34)	0.3982	* 3	* 1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00639879	Novel protein	T 706	40% (7.34)	0.3982	* 3	* 1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220740	Isoform 2 of Nucleophosmin	T 78	40% (6.30)	0.3966	* 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00009146	FLN29 gene product	T 323	39% (5.08)	0.3941	* 3	* 3	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00246827	Isoform 1 of Protein C17orf28	T 594	39% (4.54)	0.3935	* 2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00247634	Isoform 3 of Protein C17orf28	T 375	39% (4.54)	0.3935	* 2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00607714	Isoform 2 of Protein C17orf28	T 590	39% (4.54)	0.3935	* 2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00008868	Microtubule-associated protein 1B	T 1503	39% (2.24)	0.3922	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00374770	microtubule-associated protein 1B isoform 2	T 1377	39% (2.24)	0.3922	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00298696	Treacle protein	T 806	39% (5.56)	0.3917	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00747047	Treacle major isoform	T 883	39% (5.56)	0.3917	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00031241	golgi reassembly stacking protein 2	T 433	39% (4.85)	0.3895	* 2	* 4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0
IPI00743931	Isoform 1 of Golgi reassembly stacking protein 2	T 432	39% (4.85)	0.3895	* 2	* 4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0
IPI00014068	Isoform 1 of Serine/threonine-protein kinase PAK 4	T 478	39% (6.76)	0.3888	0	* 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0
IPI00179890	Isoform B of Ras-GTPase-activating protein-binding protein 2	T 226	39% (0.00)	0.3856	* 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00291802	Isoform 3 of LIM domain only protein 7	T 656	38% (4.08)	0.3849	0	* 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00302829	Retinoblastoma-associated protein	T 823	38% (4.05)	0.3836	* 1	* 2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00007248	Pleckstrin homology domain-containing family A member 6	T 779	38% (4.84)	0.3825	* 1	* 2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00477104	Pleckstrin homology domain containing, family A member 6	T 799	38% (4.84)	0.3825	* 1	* 2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00170596	Paired amphipathic helix protein Sin3a	T 284	38% (5.36)	0.3809	* 3	* 4	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IPI00297211	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A member 5	T 115	38% (0.00)	0.3791	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00414127	Ran-specific GTPase-activating protein	T 13	38% (4.08)	0.3788	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218323	Tumor protein D52	T 133	38% (0.57)	0.3781	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00619958	tumor protein D52 isoform 1	T 173	38% (0.57)	0.3781	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00064767	nadrin isoform 1	T 679	38% (5.08)	0.3778	* 1	* 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00289776	Isoform 1 of Probable ubiquitin ligase protein MYCBP2	T 2645	38% (6.93)	0.3777	* 2	* 3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00607852	Isoform 2 of Probable ubiquitin ligase protein MYCBP2	T 2645	38% (6.93)	0.3777	* 2	* 3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00166680	Isoform 3 of Misshapen-like kinase 1	T 565	38% (6.80)	0.3776	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00382733	Transcription repressor	T 91	38% (5.48)	0.3773	* 2	* 2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
IPI00293451	Tight junction protein ZO-3	T 735	37% (6.47)	0.3723	* 1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00744036	tight junction protein 3	T 754	37% (6.47)	0.3723	* 1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00554788	Keratin, type I cytoskeletal 18	T 52	37% (4.97)	0.3709	* 2	* 1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00329638	Isoform 1 of Mitogen-activated protein kinase kinase kinase MLT	T 514	37% (0.57)	0.3689	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00218529	Isoform AML-1I of Runt-related transcription factor 1	T 222	37% (1.48)	0.3684	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218936	Isoform AML-1A of Runt-related transcription factor 1	T 207	37% (1.48)	0.3684	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218938	Isoform AML-1C of Runt-related transcription factor 1	T 207	37% (1.48)	0.3684	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218942	Isoform AML-1FC of Runt-related transcription factor 1	T 174	37% (1.48)	0.3684	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218943	Isoform AML-1G of Runt-related transcription factor 1	T 234	37% (1.48)	0.3684	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218944	Isoform AML-1H of Runt-related transcription factor 1	T 210	37% (1.48)	0.3684	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413370	RUNX1 protein (Fragment)	T 234	37% (1.48)	0.3684	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00477787	Isoform AML-1B of Runt-related transcription factor 1	T 207	37% (1.48)	0.3684	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	T 3510	37% (5.31)	0.3677	* 2	* 2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00083708	HBxAg transactivated protein 2	T 1269	37% (0.41)	0.3676	* 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00739117	HBxAg transactivated protein 2	T 1267	37% (0.41)	0.3676	* 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00000856	Isoform 1 of Pleckstrin homology domain-containing family C member 1	T 331	37% (4.05)	0.3664	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00182728	Vacuolar sorting protein 4b	T 421	36% (2.27)	0.3640	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00064931	Isoform 2 of E1A-binding protein p400	T 320	36% (3.98)	0.3621	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00167535	344 kDa protein	T 320	36% (3.98)	0.3621	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00477005	E1A binding protein p400	T 320	36% (3.98)	0.3621	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00479168	Isoform 1 of E1A-binding protein p400	T 320	36% (3.98)	0.3621	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748478	Isoform 4 of E1A-binding protein p400	T 320	36% (3.98)	0.3621	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00014414	Bromodomain-containing protein 2	T 629	35% (4.67)	0.3545	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00440502	BRD2 protein	T 664	35% (4.67)	0.3545	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00645146	88 kDa protein	T 629	35% (4.67)	0.3545	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00748005	92 kDa protein	T 664	35% (4.67)	0.3545	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00026089	Splicing factor 3B subunit 1	T 285	35% (6.59)	0.3543	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00032355	Pumilio homolog 1	T 747	35% (4.08)	0.3534	0	* 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00551014	Isoform 1 of Pumilio homolog 1	T 711	35% (4.08)	0.3534	0	* 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00646054	Pumilio homolog 1	T 712	35% (4.08)	0.3534	0	* 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00412676	CDNA FLJ43339 fis, clone NT2RI3007291	T 199	35% (5.74)	0.3524	* 1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00029822	SMARCA4 isoform 2	T 1455	35% (5.31)	0.3505	* 1	* 2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00293426	Probable global transcription activator SNF2L4	T 1423	35% (5.31)	0.3505	* 1	* 2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00217975	Lamin-B1	T 18	35% (0.00)	0.3503	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00007334	Isoform 1 of Apoptotic chromatin condensation inducer in the nucleus	T 408	35% (3.53)	0.3477	* 3	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00217418	Isoform 2 of Rho-GTPase-activating protein 12	T 231	35% (0.00)	0.3477	* 3	* 4	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0
IPI00328279	Isoform 1 of Rho-GTPase-activating protein 12	T 231	35% (0.00)	0.3477	* 3	* 4	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0
IPI00410501	ARHGAP12 protein	T 231	35% (0.00)	0.3477	* 3	* 4	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0
IPI00334715	172 kDa protein	T 1173	34% (0.00)	0.3435	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00477498	Isoform 1 of Glucocorticoid receptor DNA-binding factor 1	T 1173	34% (0.00)	0.3435	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00718985	Isoform 2 of Glucocorticoid receptor DNA-binding factor 1	T 1173	34% (0.00)	0.3435	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00017763	Nucleosome assembly protein 1-like 4	T 117	34% (4.85)	0.3397	* 5	* 6	0	0	1	1	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	0	2	0	1
IPI00217418	Isoform 2 of Rho-GTPase-activating protein 12	T 230	34% (0.00)	0.3384	* 2	* 1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00328279	Isoform 1 of Rho-GTPase-activating protein 12	T 230	34% (0.00)	0.3384	* 2	* 1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00410501	ARHGAP12 protein	T 230	34% (0.00)	0.3384	* 2	* 1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00219726	Isoform 2AC of Catenin delta-1	T 878	34% (0.00)	0.3376	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00219728	Isoform 2A of Catenin delta-1	T 872	34% (0.00)	0.3376	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00170935	Leucine-rich repeat-containing protein 47	T 522	34% (7.88)	0.3361	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00289344	Isoform 1 of Nuclear receptor corepressor 1	T 1766	34% (4.08)	0.3353	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	T 985	33% (0.00)	0.3335	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00013485	40S ribosomal protein S2	T 292	33% (0.00)	0.3333	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00066641	Ubiquitin-like PHD and RING finger domain-containing protein 1	T 83	33% (0.00)	0.3333	* 1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218486	Isoform 1 of Protein phosphatase Slingshot homolog 3	T 495	33% (0.00)	0.3333	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00294250	Ephrin type-A receptor 1 precursor	T 33	33% (0.00)	0.3333	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00306723	CCAAT/enhancer-binding protein zeta	T 33	33% (0.00)	0.3333	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00333215	Isoform 1 of Transcription elongation factor A protein 1	T 96	33% (0.00)	0.3333	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00445401	Isoform 2 of HECT, UBA and WWE domain-containing protein 1	T 2889	33% (0.00)	0.3333	* 2	* 1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00456919	Isoform 1 of HECT, UBA and WWE domain-containing protein 1	T 2889	33% (0.00)	0.3333	* 2	* 1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00643153	Isoform 3 of HECT, UBA and WWE domain-containing protein 1	T 2880	33% (0.00)	0.3333	* 2	* 1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00645728	82 kDa protein	T 96	33% (0.00)	0.3333	* 1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00004233	Isoform Long of Antigen KI-67	T 2504	33% (4.97)	0.3292	* 1	* 1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00301293	antigen identified by monoclonal antibody Ki-67	T 2504	33% (4.97)	0.3292	* 1	* 1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00290410	Acidic 82 kDa protein mRNA	T 188	33% (5.59)	0.3268	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00106955	Hypothetical protein LOC144097	T 117	32% (1.70)	0.3237	* 1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00008868	Microtubule-associated protein 1B	T 1147	32% (3.24)	0.3203	0	* 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00374770	microtubule-associated protein 1B isoform 2	T 1021	32% (3.24)	0.3203	0	* 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00414315	Isoform 1 of Epidermal growth factor receptor kinase substrate 8-like protein 2	T 572	32% (8.18)	0.3198	* 1	* 2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00024071	Isoform Long of Heat shock factor protein 1	T 323	31% (3.94)	0.3144	* 2	* 4	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0
IPI00218507	Isoform Short of Heat shock factor protein 1	T 323	31% (3.94)	0.3144	* 2	* 4	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0
IPI00106559	Isoform 2 of Tax1-binding protein 1	T 131	31% (3.64)	0.3126	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00657950	Isoform 1 of Tax1-binding protein 1	T 131	31% (3.64)	0.3126	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218753	Isoform 3 of DNA topoisomerase 2-alpha	T 1433	31% (4.99)	0.3126	* 1	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00218754	Isoform 4 of DNA topoisomerase 2-alpha	T 1478	31% (4.99)	0.3126	* 1	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00414101	Isoform 2 of DNA topoisomerase 2-alpha	T 1424	31% (4.99)	0.3126	* 1	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00478232	Isoform 1 of DNA topoisomerase 2-alpha	T 1434	31% (4.99)	0.3126	* 1	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00552897	Isoform 1 of Mediator of DNA damage checkpoint protein 1	T 1239	31% (7.01)	0.3094	* 1	* 3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00641106	227 kDa protein	T 1239	31% (7.01)	0.3094	* 1	* 3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00023283	Isoform 2 of Titin	T 20340	30% (0.00)	0.3009	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00024234	Phosphatidate cytidylyltransferase 1	T 33	30% (1.94)	0.3002	* 1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00384529	Hypothetical protein DKFZp547K059	T 336	30% (0.00)	0.2962	* 1	* 1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00171422	CDNA PSEC0094 fis, clone NT2RP2001499, weakly similar to PROTEIN PTM1	T 431	29% (0.00)	0.2949	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00030915	Ubiquitin carboxyl-terminal hydrolase 8	T 692	29% (6.08)	0.2935	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005024	Isoform 1 of Myb-binding protein 1A	T 1190	29% (3.19)	0.2922	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00607584	Isoform 2 of Myb-binding protein 1A	T 1190	29% (3.19)	0.2922	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00479404	vacuolar protein sorting 13D isoform 1	T 1772	29% (2.24)	0.2914	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514073	vacuolar protein sorting 13D isoform 2	T 1772	29% (2.24)	0.2914	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413734	Isoform 6 of Transcriptional regulator ATRX	T 717	29% (0.00)	0.2878	* 1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00008868	Microtubule-associated protein 1B	T 2344	28% (0.00)	0.2839	* 1	* 1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00374770	microtubule-associated protein 1B isoform 2	T 2218	28% (0.00)	0.2839	* 1	* 1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00032150	Isoform 1 of Phosphatidate cytidylyltransferase 2	T 31	28% (2.44)	0.2776	0	* 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00023748	Nascent polypeptide-associated complex alpha subunit	T 161	27% (6.57)	0.2741	* 3	* 4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00384556	Ribosomal RNA upstream binding transcription factor (Fragment)	T 603	27% (3.44)	0.2718	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00168459	Isoform 2 of Pleckstrin homology-like domain family B member 2	T 469	27% (10.05)	0.2717	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00410259	Isoform 1 of Pleckstrin homology-like domain family B member 2	T 469	27% (10.05)	0.2717	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00657763	Isoform 3 of Pleckstrin homology-like domain family B member 2	T 496	27% (10.05)	0.2717	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00472794	FCH domain only 2	T 546	27% (2.29)	0.2697	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00179109	Isoform 1 of NAD-dependent deacetylase sirtuin-2	T 365	27% (2.29)	0.2695	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00382551	Isoform 2 of NAD-dependent deacetylase sirtuin-2	T 328	27% (2.29)	0.2695	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00472047	Isoform 3 of NAD-dependent deacetylase sirtuin-2	T 345	27% (2.29)	0.2695	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00640953	43 kDa protein	T 363	27% (2.29)	0.2695	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00643990	40 kDa protein	T 336	27% (2.29)	0.2695	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00555610	313 kDa protein	T 2865	27% (2.24)	0.2671	* 2	* 2	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00746320	3-phosphoinositide dependent protein kinase-1 variant (Fragment)	T 283	27% (2.02)	0.2663	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00744288	Isoform 5 of C-jun-amino-terminal kinase-interacting protein 4	T 177	26% (2.13)	0.2605	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00106567	WD-repeat protein 33	T 144	26% (2.87)	0.2597	* 1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00442210	Isoform 1 of Abl interactor 2	T 174	26% (0.00)	0.2594	* 1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00016006	Gephyrin	T 198	26% (0.00)	0.2561	* 2	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00184477	gephyrin isoform 1	T 198	26% (0.00)	0.2561	* 2	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00016250	Fragile X mental retardation syndrome-related protein 2	T 451	26% (5.55)	0.2558	* 1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00003964	ubiquitin specific protease 9, X-linked isoform 4	T 1591	25% (2.44)	0.2528	* 2	* 1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00221012	ubiquitin specific protease 9, X-linked isoform 3	T 1591	25% (2.44)	0.2528	* 2	* 1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00645814	KIAA1187 protein	T 778	25% (7.07)	0.2527	0	* 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00654605	Hypothetical protein RPRC1	T 816	25% (7.07)	0.2527	0	* 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00169307	Rho GTPase activating protein 21	T 316	25% (4.97)	0.2525	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00019901	Isoform 1 of Alpha-adducin	T 11	25% (0.00)	0.2500	* 1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022649	Isoform 1 of Solute carrier family 12 member 2	T 266	25% (0.00)	0.2500	* 1	* 1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00028122	Isoform 1 of PC4 and SFRS1-interacting protein	T 115	25% (0.00)	0.2500	0	* 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00160265	Isoform 2 of Trinucleotide repeat-containing gene 6A protein	T 485	25% (0.00)	0.2500	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00218696	Isoform 4 of Caldesmon	T 536	25% (0.00)	0.2500	* 2	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219726	Isoform 2AC of Catenin delta-1	T 852	25% (0.00)	0.2500	* 1	* 3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
IPI00219728	Isoform 2A of Catenin delta-1	T 846	25% (0.00)	0.2500	* 1	* 3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
IPI00220158	Isoform 3 of Alpha-adducin	T 11	25% (0.00)	0.2500	* 1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220739	Membrane-associated progesterone receptor component 1	T 177	25% (0.00)	0.2500	* 1	* 2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00220844	Isoform 2 of Solute carrier family 12 member 2	T 266	25% (0.00)	0.2500	* 1	* 1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00221394	H/ACA ribonucleoprotein complex subunit 4	T 495	25% (0.00)	0.2500	* 2	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00290032	Transient receptor potential cation channel subfamily M member 7	T 173	25% (0.00)	0.2500	* 1	* 2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00333771	Isoform 5 of Caldesmon	T 530	25% (0.00)	0.2500	* 2	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00395878	Isoform 1 of Trinucleotide repeat-containing gene 6A protein	T 738	25% (0.00)	0.2500	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00398779	plectin 1 isoform 11	T 19	25% (0.00)	0.2500	* 2	* 3	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
IPI00419847	Isoform Alpha of Vinexin	T 562	25% (0.00)	0.2500	* 2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00472540	Isoform Beta of Vinexin	T 220	25% (0.00)	0.2500	* 2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00549473	PREDICTED: similar to Forkhead box protein K1 (Myocyte nuclear factor) (MNF) isoform 1	T 131	25% (0.00)	0.2500	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00556645	forkhead box K1	T 294	25% (0.00)	0.2500	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00744288	Isoform 5 of C-jun-amino-terminal kinase-interacting protein 4	T 351	25% (0.00)	0.2500	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00470478	374 kDa protein	T 342	25% (5.57)	0.2457	* 3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00642126	chromosome 17 open reading frame 27	T 342	25% (5.57)	0.2457	* 3	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00014456	Striatin	T 143	24% (3.33)	0.2417	* 3	* 2	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00654594	STRN protein	T 143	24% (3.33)	0.2417	* 3	* 2	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00743778	76 kDa protein	T 234	24% (2.99)	0.2416	* 1	* 2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00440727	Isoform 1 of Bromodomain-containing protein 4	T 1080	23% (2.60)	0.2346	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00470483	WD repeat domain 62	T 50	23% (3.74)	0.2345	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00410330	Isoform 1 of Transcriptional repressor p66 alpha	T 189	23% (2.29)	0.2325	* 2	* 3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00444526	Isoform 2 of Transcriptional repressor p66 alpha	T 189	23% (2.29)	0.2325	* 2	* 3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00478128	GATA zinc finger domain containing 2A	T 208	23% (2.29)	0.2325	* 2	* 3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00003394	Isoform SMN of Survival motor neuron protein	T 25	23% (0.00)	0.2325	* 1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00009597	Isoform SMN-delta7 of Survival motor neuron protein	T 25	23% (0.00)	0.2325	* 1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00009598	Isoform SMN-delta57 of Survival motor neuron protein	T 25	23% (0.00)	0.2325	* 1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219360	Isoform SMN-delta5 of Survival motor neuron protein	T 25	23% (0.00)	0.2325	* 1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00186194	KARP-1-binding protein	T 841	23% (0.00)	0.2297	* 1	* 2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	T 328	22% (5.17)	0.2248	* 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00304589	182 kDa tankyrase 1-binding protein	T 1154	22% (0.00)	0.2248	* 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022215	Activity-dependent neuroprotector	T 1068	22% (2.09)	0.2240	* 1	* 2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
IPI00470483	WD repeat domain 62	T 1267	22% (0.00)	0.2222	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00552897	Isoform 1 of Mediator of DNA damage checkpoint protein 1	T 1608	22% (3.29)	0.2221	* 2	* 1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641106	227 kDa protein	T 1608	22% (3.29)	0.2221	* 2	* 1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00254338	LOC162427 protein	T 310	22% (0.00)	0.2205	* 2	* 1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00290652	remodeling and spacing factor 1	T 1371	22% (3.99)	0.2203	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00514411	Isoform 2 of Hepatitis B virus X-associated protein	T 1330	22% (3.99)	0.2203	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00102752	Isoform 1 of Putative RNA-binding protein 15	T 265	22% (0.00)	0.2201	* 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00220716	Isoform 2 of Putative RNA-binding protein 15	T 265	22% (0.00)	0.2201	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220717	Isoform 3 of Putative RNA-binding protein 15	T 265	22% (0.00)	0.2201	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022624	Retinoic acid-induced protein 3	T 306	22% (3.42)	0.2197	3	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00027831	Glutamate-rich WD repeat-containing protein 1	T 114	22% (3.42)	0.2194	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00386898	CDNA FLJ12346 fis, clone MAMMA1002297, highly similar to Homo sapiens Rab6 GTPase activating pro	T 38	22% (0.00)	0.2181	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00297254	Signal-induced proliferation-associated 1-like protein 3	T 205	22% (3.72)	0.2168	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00658152	tensin-like SH2 domain containing 1	T 718	22% (3.59)	0.2156	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00759836	Tensin	T 820	22% (3.59)	0.2156	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00184330	DNA replication licensing factor MCM2	T 59	22% (1.34)	0.2152	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00289819	Cation-independent mannose-6-phosphate receptor precursor	T 327	21% (3.54)	0.2113	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00015973	Band 4.1-like protein 2	T 600	21% (0.00)	0.2106	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005648	Scaffold attachment factor B2	T 244	21% (1.06)	0.2104	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
IPI00646058	103 kDa protein	T 245	21% (1.06)	0.2104	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
IPI00013891	Isoform Long of Transformer-2 protein homolog	T 204	21% (0.00)	0.2099	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0
IPI00023283	Isoform 2 of Titin	T 27792	21% (0.00)	0.2099	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00745518	Microtubule-associated protein 4 isoform 1 variant (Fragment)	T 610	21% (8.26)	0.2050	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
IPI00219018	Glyceraldehyde-3-phosphate dehydrogenase	T 181	20% (0.00)	0.2026	2	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00237884	Isoform 1 of A-kinase anchor protein 12	T 596	20% (0.00)	0.2014	2	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00464952	Splicing factor arginine/serine-rich 11	T 447	20% (0.00)	0.2014	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641287	Splicing factor p54	T 446	20% (0.00)	0.2014	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641842	Splicing factor, arginine₩/serine-rich 11	T 387	20% (0.00)	0.2014	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00291930	Isoform 1 of Epsin-4	T 294	20% (3.42)	0.2012	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00397519	Isoform 2 of Epsin-4	T 276	20% (3.42)	0.2012	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00008240	Methionyl-tRNA synthetase	T 824	20% (0.00)	0.2000	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00031618	DNA-damage inducible protein 2	T 104	20% (0.00)	0.2000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00031681	Cell division protein kinase 2	T 158	20% (0.00)	0.2000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00031681	Cell division protein kinase 2	T 160	20% (0.00)	0.2000	3	3	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0
IPI00065931	A-kinase anchor protein 13 isoform 1	T 815	20% (0.00)	0.2000	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00096972	Isoform 1 of Histone-lysine N-methyltransferase, H3 lysine-9 specific 3	T 171	20% (0.00)	0.2000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00102107	Isoform 1 of Histone-lysine N-methyltransferase, H3 lysine-36 and H4 lysine-20 specific	T 1509	20% (0.00)	0.2000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00102313	steroid receptor RNA activator 1	T 68	20% (0.00)	0.2000	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00183699	Isoform 2 of HMG box transcription factor BBX	T 857	20% (0.00)	0.2000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220795	Isoform 2 of Histone-lysine N-methyltransferase, H3 lysine-9 specific 3	T 171	20% (0.00)	0.2000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220796	Isoform 3 of Histone-lysine N-methyltransferase, H3 lysine-9 specific 3	T 171	20% (0.00)	0.2000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00296388	Isoform 1 of Bromodomain adjacent to zinc finger domain 2A	T 480	20% (0.00)	0.2000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00299024	Brain acid soluble protein 1	T 195	20% (0.00)	0.2000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00300222	Isoform 1 of HMG box transcription factor BBX	T 889	20% (0.00)	0.2000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00383597	Isoform A of Anion exchange protein 2	T 169	20% (0.00)	0.2000	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00384202	Isoform 1 of Probable JmjC domain-containing histone demethylation protein 2C	T 2052	20% (0.00)	0.2000	4	5	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0
IPI00433194	EHBP1 protein	T 392	20% (0.00)	0.2000	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00442504	Hypothetical protein FLJ27117	T 321	20% (0.00)	0.2000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00477139	Isoform B1 of Anion exchange protein 2	T 155	20% (0.00)	0.2000	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00645216	HLA-B associated transcript 8	T 171	20% (0.00)	0.2000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00745006	102 kDa protein	T 859	20% (0.00)	0.2000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00745274	bromodomain adjacent to zinc finger domain, 2A	T 510	20% (0.00)	0.2000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748920	splicing coactivator subunit SRm300	T 856	20% (0.00)	0.2000	2	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00759742	Isoform 2 of Bromodomain adjacent to zinc finger domain 2A	T 510	20% (0.00)	0.2000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220740	Isoform 2 of Nucleophosmin	T 75	20% (0.52)	0.1984	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00552897	Isoform 1 of Mediator of DNA damage checkpoint protein 1	T 1444	20% (4.42)	0.1957	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00641106	227 kDa protein	T 1444	20% (4.42)	0.1957	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00472044	Isoform 1 of GTPase-activating Rap/Ran-GAP domain-like 1	T 825	20% (0.00)	0.1953	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00023780	Isoform 2 of DnaJ homolog subfamily C member 5	T 11	19% (3.98)	0.1911	4	9	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	1	1	0	2	3	0	0	0	0
IPI00402231	Isoform 1 of DnaJ homolog subfamily C member 5	T 11	19% (3.98)	0.1911	4	9	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	1	1	0	2	3	0	0	0	0
IPI00100930	Hypothetical protein C12orf43	T 183	19% (2.60)	0.1908	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00291175	Isoform 1 of Vinculin	T 718	19% (0.00)	0.1884	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00307162	vinculin isoform meta-VCL	T 719	19% (0.00)	0.1884	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00644521	36 kDa protein	T 143	18% (0.00)	0.1837	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00152007	Tumor endothelial marker 4	T 530	18% (4.05)	0.1814	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00290460	Eukaryotic translation initiation factor 3 subunit 4	T 38	18% (0.00)	0.1796	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00305020	SH2 domain-containing protein 3A	T 193	18% (0.00)	0.1781	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00021766	Isoform 1 of Reticulon-4	T 188	18% (0.00)	0.1780	1	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00478442	reticulon 4 isoform D	T 188	18% (0.00)	0.1780	1	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00170934	LKB1 interacting protein	T 614	18% (0.00)	0.1750	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00032971	Oxysterol-binding protein-related protein 10	T 217	17% (0.00)	0.1730	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00289746	Isoform 2 of Serine/threonine-protein kinase PAK 1	T 229	17% (8.26)	0.1720	3	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00656138	Isoform 1 of Serine/threonine-protein kinase PAK 1	T 229	17% (8.26)	0.1720	3	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00386211	family with sequence similarity 44, member A	T 2478	17% (1.99)	0.1716	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00179326	Insulin receptor tyrosine kinase substrate	T 257	17% (0.00)	0.1707	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00302829	Retinoblastoma-associated protein	T 353	17% (7.66)	0.1699	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00554715	fragile X mental retardation-related protein 1 isoform b	T 483	17% (4.32)	0.1681	2	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00010700	Isoform 1 of Large proline-rich protein BAT2	T 825	17% (0.00)	0.1667	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00016780	Isoform 1 of PR domain zinc finger protein 2	T 737	17% (0.00)	0.1667	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00018370	Isoform 2 of Supervillin	T 346	17% (0.00)	0.1667	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00024062	Band 4.1-like protein 1	T 78	17% (0.00)	0.1667	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00026089	Splicing factor 3B subunit 1	T 354	17% (0.00)	0.1667	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00032374	Isoform 2 of Protein KIAA0179	T 436	17% (0.00)	0.1667	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00084746	229 kDa protein	T 825	17% (0.00)	0.1667	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00172636	calcium/calmodulin-dependent protein kinase II delta isoform 1	T 331	17% (0.00)	0.1667	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00290952	Isoform 1 of Protein KIAA0179	T 454	17% (0.00)	0.1667	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00305589	Isoform 1 of 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2	T 468	17% (0.00)	0.1667	5	4	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00376933	HLA-B associated transcript-2 isoform b	T 813	17% (0.00)	0.1667	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00384569	Hypothetical protein KIAA1685	T 263	17% (0.00)	0.1667	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00419431	Hypothetical protein DKFZp686C1968	T 523	17% (0.00)	0.1667	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00644651	EPB41L1 protein	T 78	17% (0.00)	0.1667	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00742934	HLA-B associated transcript-2 isoform a	T 825	17% (0.00)	0.1667	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00746320	3-phosphoinositide dependent protein kinase-1 variant (Fragment)	T 75	17% (0.00)	0.1667	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00007248	Pleckstrin homology domain-containing family A member 6	T 775	17% (2.33)	0.1655	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00477104	Pleckstrin homology domain containing, family A member 6	T 795	17% (2.33)	0.1655	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00024234	Phosphatidate cytidylyltransferase 1	T 36	17% (0.00)	0.1653	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
IPI00145593	Nucleolar protein with MIF4G domain 1	T 637	16% (0.00)	0.1643	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00555838	Isoform 1 of Serine/threonine-protein kinase MARK2	T 42	16% (0.00)	0.1633	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00556171	Isoform 4 of Serine/threonine-protein kinase MARK2	T 42	16% (0.00)	0.1633	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00556187	Isoform 8 of Serine/threonine-protein kinase MARK2	T 42	16% (0.00)	0.1633	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00556468	Isoform 11 of Serine/threonine-protein kinase MARK2	T 42	16% (0.00)	0.1633	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00556620	Isoform 9 of Serine/threonine-protein kinase MARK2	T 42	16% (0.00)	0.1633	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00556650	Isoform 5 of Serine/threonine-protein kinase MARK2	T 42	16% (0.00)	0.1633	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00642673	ATP-binding cassette, sub-family F (GCN20), member 1	T 21	16% (0.00)	0.1609	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00745518	Microtubule-associated protein 4 isoform 1 variant (Fragment)	T 310	16% (0.00)	0.1609	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00022827	Isoform 1 of STE20-like serine/threonine-protein kinase	T 327	16% (0.00)	0.1601	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00008283	Zinc finger protein 106 homolog	T 1372	16% (2.61)	0.1590	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00328798	DLNB11 protein	T 936	16% (0.57)	0.1589	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00657953	triple functional domain	T 1903	16% (0.00)	0.1585	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00419979	p21-activated kinase 2	T 143	15% (3.30)	0.1538	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00470478	374 kDa protein	T 2953	15% (0.00)	0.1525	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00642126	chromosome 17 open reading frame 27	T 2954	15% (0.00)	0.1525	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00398992	Isoform 1 of Chromodomain-helicase-DNA-binding protein 8	T 1733	15% (0.76)	0.1482	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00719073	Isoform 2 of Chromodomain-helicase-DNA-binding protein 8	T 1877	15% (0.76)	0.1482	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00166487	Isoform 3 of Protein KIAA0310	T 1262	15% (2.29)	0.1464	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00219314	Isoform 2 of Protein KIAA0310	T 1262	15% (2.29)	0.1464	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00641384	Isoform 1 of Protein KIAA0310	T 1262	15% (2.29)	0.1464	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00420025	SVH-B	T 50	15% (0.00)	0.1462	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00555667	PREDICTED: similar to SVH protein	T 75	15% (0.00)	0.1462	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00291175	Isoform 1 of Vinculin	T 603	15% (0.00)	0.1461	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00307162	vinculin isoform meta-VCL	T 604	15% (0.00)	0.1461	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00470901	215 kDa protein	T 1654	15% (0.00)	0.1461	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746684	dedicator of cytokinesis 5	T 1654	15% (0.00)	0.1461	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00164434	Isoform 1 of Receptor expression-enhancing protein 3	T 157	14% (0.78)	0.1449	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00180764	Histone acetyltransferase MYST2	T 128	14% (1.69)	0.1445	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00021595	Glucocorticoid induced transcript 1	T 170	14% (0.00)	0.1429	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00384176	Isoform 1 of Protein polybromo-1	T 504	14% (0.00)	0.1429	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00414779	DNA excision repair protein ERCC-6	T 1347	14% (0.00)	0.1429	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	T 3066	14% (2.78)	0.1410	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00027252	Prohibitin-2	T 288	14% (0.00)	0.1407	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00181359	SFRS2-interacting protein	T 492	14% (0.00)	0.1404	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746412	129 kDa protein	T 492	14% (0.00)	0.1404	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00170934	LKB1 interacting protein	T 476	14% (2.57)	0.1389	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00021363	Jumonji/ARID domain-containing protein 1A	T 203	14% (0.00)	0.1387	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00619935	JARID1A variant protein (Fragment)	T 244	14% (0.00)	0.1387	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00454910	Serine/threonine-protein kinase MRCK gamma	T 1032	14% (0.00)	0.1370	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00102107	Isoform 1 of Histone-lysine N-methyltransferase, H3 lysine-36 and H4 lysine-20 specific	T 1507	14% (0.35)	0.1363	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00017450	Transcription initiation factor IIF alpha subunit	T 446	13% (0.00)	0.1343	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00383597	Isoform A of Anion exchange protein 2	T 115	13% (3.42)	0.1339	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00477139	Isoform B1 of Anion exchange protein 2	T 101	13% (3.42)	0.1339	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00719818	nucleolar protein 5A	T 543	13% (-11.05)	0.1334	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00003406	Drebrin	T 334	13% (0.80)	0.1330	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00295624	drebrin 1 isoform b	T 337	13% (0.80)	0.1330	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00640818	Neuropathy target esterase	T 350	13% (0.00)	0.1310	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	T 3067	13% (1.88)	0.1308	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00645814	KIAA1187 protein	T 118	13% (0.00)	0.1292	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00654605	Hypothetical protein RPRC1	T 118	13% (0.00)	0.1292	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00298731	Serine/threonine-protein phosphatase 1 regulatory subunit 10	T 586	13% (0.00)	0.1282	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219604	Dual specificity mitogen-activated protein kinase kinase 1	T 291	13% (-0.12)	0.1267	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00021263	14-3-3 protein zeta/delta	T 205	13% (0.00)	0.1267	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
IPI00289344	Isoform 1 of Nuclear receptor corepressor 1	T 1763	13% (0.00)	0.1255	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00004838	Isoform Crk-II of Proto-oncogene C-crk	T 42	12% (0.00)	0.1250	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00007675	Cytoplasmic dynein 1 light intermediate chain 1	T 512	12% (0.00)	0.1250	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00021786	RAF proto-oncogene serine/threonine-protein kinase	T 258	12% (0.00)	0.1250	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00024971	Oxysterol-binding protein 1	T 377	12% (0.00)	0.1250	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00100453	DENN domain containing protein	T 649	12% (0.00)	0.1250	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00104050	Thyroid hormone receptor-associated protein 3	T 230	12% (0.00)	0.1250	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00305469	v-crk sarcoma virus CT10 oncogene homolog isoform b	T 42	12% (0.00)	0.1250	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00385511	Isoform 1 of Trinucleotide repeat-containing 6B protein	T 1437	12% (0.00)	0.1250	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00399054	v-crk sarcoma virus CT10 oncogene homolog isoform a	T 42	12% (0.00)	0.1250	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00643014	retinoblastoma-associated factor 600	T 360	12% (0.00)	0.1250	2	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00746398	hypothetical protein LOC55667	T 765	12% (0.00)	0.1250	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746934	574 kDa protein	T 360	12% (0.00)	0.1250	2	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00064162	Deubiquitinating protein VCIP135	T 770	12% (-2.29)	0.1231	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00604756	Nuclear receptor-binding protein	T 421	12% (0.00)	0.1206	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00289334	Isoform 1 of Filamin-B	T 2134	12% (0.00)	0.1173	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00382696	Isoform 2 of Filamin-B	T 2110	12% (0.00)	0.1173	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413362	signal-induced proliferation-associated 1 like 1	T 1551	11% (11.10)	0.1149	2	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
IPI00435422	Isoform 2 of Signal-induced proliferation-associated 1-like protein 1	T 1530	11% (11.10)	0.1149	2	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
IPI00433194	EHBP1 protein	T 305	11% (-0.16)	0.1145	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00163866	PREDICTED: MAX dimerization protein 5 isoform 1	T 2379	11% (-0.49)	0.1140	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00737498	PREDICTED: similar to MAX-interacting protein isoform 5	T 2379	11% (-0.49)	0.1140	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00045914	Msx2-interacting protein	T 2421	11% (8.26)	0.1134	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00166933	Protein C10orf12	T 451	11% (0.00)	0.1130	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00021907	Isoform 1 of Myelin basic protein	T 39	11% (0.00)	0.1111	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216474	Isoform 2 of Myelin basic protein	T 39	11% (0.00)	0.1111	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00292059	Nuclear pore complex protein Nup153	T 173	11% (0.00)	0.1111	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00480157	154 kDa protein	T 173	11% (0.00)	0.1111	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514528	nucleoporin 153kDa	T 173	11% (0.00)	0.1111	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00009471	WD-repeat protein 3	T 247	11% (4.15)	0.1098	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00373870	Isoform 1 of Chromodomain helicase-DNA-binding protein 3	T 715	11% (0.00)	0.1091	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00465222	chromodomain helicase DNA binding protein 3 isoform 3	T 760	11% (0.00)	0.1091	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00409640	LISCH protein isoform 2	T 435	11% (0.00)	0.1083	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00409641	LISCH protein isoform 3	T 367	11% (0.00)	0.1083	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641640	LISCH protein isoform 1	T 416	11% (0.00)	0.1083	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00646058	103 kDa protein	T 374	11% (-3.72)	0.1068	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00418991	CDNA FLJ44035 fis, clone TESTI4028612	T 1035	11% (2.27)	0.1062	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00742090	QSER1 protein (Fragment)	T 1274	11% (2.27)	0.1062	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00004962	golgi phosphoprotein 4	T 648	11% (-1.39)	0.1055	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00215963	hypothetical protein LOC23199	T 831	11% (0.00)	0.1054	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00477936	KIAA0182 protein	T 727	11% (0.00)	0.1054	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220835	Protein transport protein Sec61 beta subunit	T 8	11% (0.00)	0.1053	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00026219	Cleavage and polyadenylation specificity factor, 160 kDa subunit	T 739	10% (0.00)	0.1000	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00658152	tensin-like SH2 domain containing 1	T 377	10% (2.81)	0.0995	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00759836	Tensin	T 479	10% (2.81)	0.0995	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456750	Niban-like protein	T 706	10% (1.70)	0.0994	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00647286	hypothetical protein LOC64855	T 719	10% (1.70)	0.0994	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00445401	Isoform 2 of HECT, UBA and WWE domain-containing protein 1	T 2738	10% (1.99)	0.0993	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00456919	Isoform 1 of HECT, UBA and WWE domain-containing protein 1	T 2738	10% (1.99)	0.0993	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00643153	Isoform 3 of HECT, UBA and WWE domain-containing protein 1	T 2729	10% (1.99)	0.0993	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00104050	Thyroid hormone receptor-associated protein 3	T 941	10% (0.00)	0.0984	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00010400	1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase beta 3	T 924	10% (0.00)	0.0980	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00181283	Similar to phospholipase C, beta 3 (Fragment)	T 881	10% (0.00)	0.0980	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00292059	Nuclear pore complex protein Nup153	T 515	10% (0.00)	0.0979	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00480157	154 kDa protein	T 515	10% (0.00)	0.0979	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00514528	nucleoporin 153kDa	T 515	10% (0.00)	0.0979	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00010700	Isoform 1 of Large proline-rich protein BAT2	T 1108	10% (0.00)	0.0971	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00084746	229 kDa protein	T 1108	10% (0.00)	0.0971	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00376933	HLA-B associated transcript-2 isoform b	T 1096	10% (0.00)	0.0971	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00742934	HLA-B associated transcript-2 isoform a	T 1108	10% (0.00)	0.0971	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00552897	Isoform 1 of Mediator of DNA damage checkpoint protein 1	T 1526	9% (0.17)	0.0944	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641106	227 kDa protein	T 1526	9% (0.17)	0.0944	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00337530	Isoform 1 of RalBP1-associated Eps domain-containing protein 1	T 487	9% (0.00)	0.0937	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00337532	Isoform 3 of RalBP1-associated Eps domain-containing protein 1	T 486	9% (0.00)	0.0937	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00411635	KIAA0802 protein	T 256	9% (0.00)	0.0929	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00045360	Protein capicua homolog	T 305	9% (0.00)	0.0909	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00159652	PREDICTED: hypothetical protein LOC23045 isoform 1	T 1475	9% (0.00)	0.0909	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00739607	PREDICTED: similar to CG32045-PB, isoform B isoform 5	T 1475	9% (0.00)	0.0909	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00304589	182 kDa tankyrase 1-binding protein	T 401	8% (3.85)	0.0826	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00026813	Protein farnesyltransferase/geranylgeranyltransferase type I alpha subunit	T 375	8% (-2.29)	0.0816	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00607601	farnesyltransferase, CAAX box, alpha isoform c	T 308	8% (-2.29)	0.0816	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00607790	farnesyltransferase, CAAX box, alpha isoform b	T 284	8% (-2.29)	0.0816	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00015952	Eukaryotic translation initiation factor 4 gamma 2	T 397	8% (0.00)	0.0810	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00305152	SEC31L1 protein	T 1047	8% (0.00)	0.0805	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746182	SEC31-like 1 isoform 1	T 1161	8% (0.00)	0.0805	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	T 3038	8% (0.00)	0.0799	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00020513	Zyxin	T 366	8% (0.00)	0.0775	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00396557	ZYX protein	T 316	8% (0.00)	0.0775	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00020719	Isoform 1 of Mitochondrial antiviral signaling protein	T 163	8% (0.34)	0.0763	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00021786	RAF proto-oncogene serine/threonine-protein kinase	T 260	7% (0.49)	0.0705	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00103090	Hypothetical protein LEO1	T 302	7% (0.00)	0.0683	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00031627	DNA-directed RNA polymerase II largest subunit	T 1905	7% (0.00)	0.0656	3	3	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00293963	Chromodomain Y-like protein	T 148	6% (-4.85)	0.0639	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00480205	chromodomain protein, Y chromosome-like isoform a	T 148	6% (-4.85)	0.0639	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00655922	chromodomain protein, Y chromosome-like isoform b	T 94	6% (-4.85)	0.0639	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00045360	Protein capicua homolog	T 435	6% (0.00)	0.0635	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00256861	Isoform 2 of Microtubule-actin crosslinking factor 1, isoforms 1/2/3/5	T 3629	6% (-1.64)	0.0631	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00432363	Microtubule-actin crosslinking factor 1, isoform 4	T 4131	6% (-1.64)	0.0631	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00478739	microfilament and actin filament cross-linker protein isoform b	T 4131	6% (-1.64)	0.0631	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00513991	620 kDa protein	T 3629	6% (-1.64)	0.0631	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00514468	670 kDa protein	T 4131	6% (-1.64)	0.0631	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00550385	Isoform 1 of Microtubule-actin crosslinking factor 1, isoforms 1/2/3/5	T 3573	6% (-1.64)	0.0631	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00019205	Protein C14orf4	T 636	6% (0.00)	0.0579	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00296337	Isoform 1 of DNA-dependent protein kinase catalytic subunit	T 2671	6% (0.00)	0.0552	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00260388	PHD finger protein 2	T 541	5% (0.00)	0.0490	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00376493	PHD finger protein 2 isoform b	T 541	5% (0.00)	0.0490	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00477501	121 kDa protein	T 540	5% (0.00)	0.0490	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00170778	Formin binding protein 4	T 514	5% (0.00)	0.0484	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00163849	Epidermal growth factor receptor substrate 15-like 1	T 106	5% (-2.24)	0.0482	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00646339	Hypothetical protein DKFZp586A0524	T 106	5% (-2.24)	0.0482	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	T 2940	5% (0.00)	0.0463	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00008708	Ribosomal L1 domain-containing protein 1	T 415	5% (0.00)	0.0459	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00008144	Isoform 1 of Neurabin-1	T 839	5% (0.00)	0.0453	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00290272	DNA polymerase alpha subunit B	T 139	4% (-2.24)	0.0424	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	T 1648	4% (0.00)	0.0422	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	T 1653	4% (0.00)	0.0422	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00012429	Isoform 2 of Protein C9orf5	T 334	4% (0.00)	0.0385	3	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00607576	Isoform 1 of Protein C9orf5	T 334	4% (0.00)	0.0385	3	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00607692	Isoform 4 of Protein C9orf5	T 334	4% (0.00)	0.0385	3	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00103483	Negative elongation factor B	T 564	3% (1.37)	0.0328	3	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00003842	Isoform 1 of Microtubule-associated protein 2	T 1154	3% (-5.47)	0.0323	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00010728	203 kDa protein	T 1154	3% (-5.47)	0.0323	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00472094	Isoform 3 of Microtubule-associated protein 2	T 1150	3% (-5.47)	0.0323	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00021954	Golgi-specific brefeldin A-resistance guanine nucleotide exchange factor 1	T 1317	3% (0.00)	0.0262	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00290305	TP53-regulating kinase	T 8	2% (0.00)	0.0230	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00409671	DEAD box polypeptide 42 protein	T 824	2% (0.00)	0.0228	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005715	Isoform 1 of Ubiquitin conjugation factor E4 B	T 807	2% (-12.28)	0.0217	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00164434	Isoform 1 of Receptor expression-enhancing protein 3	T 158	2% (-2.59)	0.0204	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00438286	Isoform 1 of LAP2 protein	T 853	2% (0.00)	0.0198	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00438287	Isoform 2 of LAP2 protein	T 853	2% (0.00)	0.0198	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00438288	Isoform 3 of LAP2 protein	T 853	2% (0.00)	0.0198	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00438290	Isoform 5 of LAP2 protein	T 853	2% (0.00)	0.0198	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00438292	Isoform 7 of LAP2 protein	T 853	2% (0.00)	0.0198	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00748753	153 kDa protein	T 853	2% (0.00)	0.0198	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00409671	DEAD box polypeptide 42 protein	T 757	2% (0.00)	0.0195	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00550506	Isoform 1 of Rho guanine nucleotide exchange factor 16	T 189	2% (-4.12)	0.0190	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00395663	Ankyrin repeat and SAM domain-containing protein 1A	T 971	1% (0.00)	0.0134	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00018370	Isoform 2 of Supervillin	T 801	1% (0.00)	0.0129	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00064212	KIAA1802 protein (Fragment)	T 412	1% (0.00)	0.0105	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00414497	Chromosome 13 open reading frame 8	T 403	1% (0.00)	0.0105	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00302917	AT rich interactive domain 4B isoform 2	T 586	1% (0.00)	0.0087	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00328828	AT rich interactive domain 4B isoform 1	T 672	1% (0.00)	0.0087	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00032342	Thyroid receptor-interacting protein 12	T 98	1% (0.00)	0.0078	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00336000	Isoform 6 of Zinc finger CCHC domain-containing protein 6	T 164	1% (0.00)	0.0066	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00552923	Isoform 4 of Zinc finger CCHC domain-containing protein 6	T 164	1% (0.00)	0.0066	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00604491	Isoform 1 of Zinc finger CCHC domain-containing protein 6	T 164	1% (0.00)	0.0066	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00445401	Isoform 2 of HECT, UBA and WWE domain-containing protein 1	T 1905	0% (0.00)	0.0045	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00456919	Isoform 1 of HECT, UBA and WWE domain-containing protein 1	T 1905	0% (0.00)	0.0045	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00643153	Isoform 3 of HECT, UBA and WWE domain-containing protein 1	T 1896	0% (0.00)	0.0045	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00033025	Septin-7	T 333	0% (0.00)	0.0045	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00552502	cell division cycle 10 isoform 2	T 313	0% (0.00)	0.0045	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00005202	Membrane-associated progesterone receptor component 2	T 93	0% (-8.29)	0.0024	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00009659	Protein C20orf77	T 140	0% (-6.67)	0.0022	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00101942	Calmin	T 589	0% (4.26)	0.0007	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00745518	Microtubule-associated protein 4 isoform 1 variant (Fragment)	T 540	0% (8.74)	0.0003	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00000690	Isoform 1 of Programmed cell death protein 8, mitochondrial precursor	Y 95	100% (1,000.00)	1.0000	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00003373	Occludin	Y 493	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00003783	Dual specificity mitogen-activated protein kinase kinase 2	Y 183	100% (1,000.00)	1.0000	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00004962	golgi phosphoprotein 4	Y 673	100% (1,000.00)	1.0000	4	4	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
IPI00005826	HECT domain and RCC1-like domain-containing protein 2	Y 92	100% (61.26)	1.0000	2	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	Y 1576	100% (1,000.00)	1.0000	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	Y 1581	100% (1,000.00)	1.0000	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00014149	Tetratricopeptide repeat protein KIAA0103	Y 214	100% (1,000.00)	1.0000	2	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00018037	Surfeit locus protein 2	Y 123	100% (1,000.00)	1.0000	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00019471	Insulin receptor substrate 1	Y 989	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00021831	cAMP-dependent protein kinase type I-alpha regulatory subunit	Y 113	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00021985	Transmembrane 9 superfamily protein member 4	Y 150	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00166153	KIAA0082	Y 443	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00178185	Isoform 1 of Cytoskeleton-like bicaudal D protein homolog 2	Y 628	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00180707	Isoform 1 of FRAS1-related extracellular matrix protein 2 precursor	Y 2411	100% (1,000.00)	1.0000	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00180707	Isoform 1 of FRAS1-related extracellular matrix protein 2 precursor	Y 2414	100% (1,000.00)	1.0000	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00187011	Zinc finger CCCH-type domain-containing protein C19orf7	Y 364	100% (1,000.00)	1.0000	2	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00187011	Zinc finger CCCH-type domain-containing protein C19orf7	Y 376	100% (1,000.00)	1.0000	2	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216682	Calponin-3	Y 189	100% (1,000.00)	1.0000	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00291646	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1-like	Y 877	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00302149	Isoform 1 of Polyhomeotic-like protein 3	Y 812	100% (77.53)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00337667	Isoform 2 of Cytoskeleton-like bicaudal D protein homolog 2	Y 628	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00374065	PREDICTED: similar to melanoma inhibitory activity 3 isoform 1	Y 1527	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00413140	Dynamin-1	Y 566	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413734	Isoform 6 of Transcriptional regulator ATRX	Y 547	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00414676	Heat shock protein HSP 90-beta	Y 618	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00419264	surfeit 2	Y 123	100% (1,000.00)	1.0000	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00442274	nuclear transcription factor, X-box binding-like 1	Y 232	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00442274	nuclear transcription factor, X-box binding-like 1	Y 233	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00442274	nuclear transcription factor, X-box binding-like 1	Y 235	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00455473	C219-reactive peptide	Y 1527	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00477526	Conserved hypothetical protein	Y 143	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00477526	Conserved hypothetical protein	Y 146	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00477949	zinc finger protein 262	Y 459	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00479078	Tight junction protein occludin TM4 minus	Y 439	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00479926	Isoform 2 of Ribosomal protein S6 kinase alpha-4	Y 402	100% (1,000.00)	1.0000	2	2	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00513965	Zinc finger protein 262	Y 404	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514850	dynamin 1 isoform 2	Y 563	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00552861	dynamin 1 isoform 1	Y 563	100% (1,000.00)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00640805	Isoform 2 of FRAS1-related extracellular matrix protein 2 precursor	Y 2411	100% (1,000.00)	1.0000	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00640805	Isoform 2 of FRAS1-related extracellular matrix protein 2 precursor	Y 2414	100% (1,000.00)	1.0000	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00642542	DJ639P13.2.2	Y 148	100% (1,000.00)	1.0000	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00658100	Isoform 2 of Polyhomeotic-like protein 3	Y 793	100% (77.53)	1.0000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00718918	PREDICTED: similar to Occludin	Y 312	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00719015	Isoform 2 of Dedicator of cytokinesis protein 9	Y 25	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00736401	PREDICTED: similar to Occludin	Y 312	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00743585	59 kDa protein	Y 493	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00745876	53 kDa protein	Y 439	100% (1,000.00)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00001649	DNAJ domain-containing	Y 19	100% (47.88)	1.0000	2	6	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	1	0	0	1	0	0
IPI00296337	Isoform 1 of DNA-dependent protein kinase catalytic subunit	Y 3859	100% (41.72)	1.0000	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00645403	hypothetical protein LOC56243	Y 520	100% (32.69)	1.0000	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00001649	DNAJ domain-containing	Y 16	100% (35.06)	1.0000	2	6	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	1	0	0	1	0	0
IPI00020827	PNAS-117	Y 10	100% (27.01)	1.0000	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00026689	Hypothetical protein DKFZp686L20222	Y 15	100% (26.57)	1.0000	9	6	0	0	0	1	1	0	0	0	0	2	2	0	0	0	0	0	3	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0
IPI00031681	Cell division protein kinase 2	Y 15	100% (25.11)	1.0000	7	6	0	0	0	1	0	0	0	0	0	2	2	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0
IPI00161085	Isoform 1 of Nucleolar protein 8	Y 382	100% (34.83)	1.0000	11	7	2	1	0	0	0	0	1	2	0	0	0	0	4	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	3	0	0	0	0	0	0
IPI00480054	Isoform 3 of Nucleolar protein 8	Y 250	100% (34.83)	1.0000	11	7	2	1	0	0	0	0	1	2	0	0	0	0	4	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	3	0	0	0	0	0	0
IPI00643700	Isoform 4 of Nucleolar protein 8	Y 376	100% (34.83)	1.0000	11	7	2	1	0	0	0	0	1	2	0	0	0	0	4	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	3	0	0	0	0	0	0
IPI00759630	Isoform 2 of Nucleolar protein 8	Y 308	100% (34.83)	1.0000	11	7	2	1	0	0	0	0	1	2	0	0	0	0	4	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	3	0	0	0	0	0	0
IPI00170865	Membrane-associated guanylate kinase-related 3	Y 116	100% (22.83)	1.0000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00333067	HECT and RCC1 containing protein 4 isoform 1	Y 166	100% (45.43)	0.9999	5	5	1	1	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0
IPI00604497	Hect domain and RLD 4, isoform b	Y 166	100% (45.43)	0.9999	5	5	1	1	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0
IPI00337385	Isoform 1 of Pre-mRNA-processing factor 40 homolog A	Y 460	100% (20.41)	0.9999	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00337386	Isoform 2 of Pre-mRNA-processing factor 40 homolog A	Y 418	100% (20.41)	0.9999	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00337387	Isoform 3 of Pre-mRNA-processing factor 40 homolog A	Y 442	100% (20.41)	0.9999	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00397509	Isoform 4 of Pre-mRNA-processing factor 40 homolog A	Y 329	100% (20.41)	0.9999	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00013415	40S ribosomal protein S7	Y 177	100% (38.16)	0.9998	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00023283	Isoform 2 of Titin	Y 16574	100% (33.09)	0.9995	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00425560	Isoform 1 of LAP4 protein	Y 834	100% (36.05)	0.9995	5	2	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00425566	Isoform 4 of LAP4 protein	Y 834	100% (36.05)	0.9995	5	2	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00289819	Cation-independent mannose-6-phosphate receptor precursor	Y 834	100% (37.65)	0.9995	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00030466	PREDICTED: hypothetical protein LOC26115 isoform 1	Y 1438	100% (27.18)	0.9992	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00002564	DNA-repair protein XRCC1	Y 576	100% (22.47)	0.9985	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00003479	Mitogen-activated protein kinase 1	Y 186	100% (31.20)	0.9985	3	5	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0
IPI00022215	Activity-dependent neuroprotector	Y 719	100% (14.02)	0.9984	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
IPI00220993	Isoform CNPI of 2',3'-cyclic-nucleotide 3'-phosphodiesterase	Y 258	100% (14.02)	0.9984	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00306667	Isoform CNPII of 2',3'-cyclic-nucleotide 3'-phosphodiesterase	Y 278	100% (14.02)	0.9984	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00401611	PREDICTED: RW1 protein isoform 1	Y 417	100% (14.02)	0.9984	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00163420	Isoform 3 of Receptor-type tyrosine-protein phosphatase alpha precursor	Y 798	100% (26.31)	0.9977	7	6	2	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	2	0	1	0	0	0	1	0	0	0	0	0
IPI00304030	Isoform 4 of Receptor-type tyrosine-protein phosphatase alpha precursor	Y 789	100% (26.31)	0.9977	7	6	2	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	2	0	1	0	0	0	1	0	0	0	0	0
IPI00290032	Transient receptor potential cation channel subfamily M member 7	Y 711	100% (14.02)	0.9973	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022624	Retinoic acid-induced protein 3	Y 347	100% (32.86)	0.9970	8	6	1	0	0	1	1	0	0	1	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1	0	2	0	0	0	0
IPI00013214	DNA replication licensing factor MCM3	Y 708	100% (28.13)	0.9969	5	9	0	0	2	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	3	1	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0
IPI00074148	dystonin isoform 1	Y 2052	100% (25.00)	0.9968	2	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00658152	tensin-like SH2 domain containing 1	Y 144	100% (12.23)	0.9964	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00759836	Tensin	Y 246	100% (12.23)	0.9964	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00384176	Isoform 1 of Protein polybromo-1	Y 1613	100% (28.49)	0.9963	4	6	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00438170	Isoform 1 of Sorting nexin-12	Y 72	99% (11.10)	0.9940	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00438171	Isoform 2 of Sorting nexin-12	Y 72	99% (11.10)	0.9940	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00743822	20 kDa protein	Y 72	99% (11.10)	0.9940	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00398012	Fragile site-associated protein	Y 2597	99% (24.17)	0.9939	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00303343	Serine arginine-rich pre-mRNA splicing factor SR-A1	Y 732	99% (11.10)	0.9933	7	3	1	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0
IPI00163505	Isoform 1 of RNA-binding region-containing protein 2	Y 95	99% (24.01)	0.9921	5	0	0	0	1	1	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00215801	Isoform 2 of RNA-binding region-containing protein 2	Y 95	99% (24.01)	0.9921	5	0	0	0	1	1	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00023283	Isoform 2 of Titin	Y 10588	99% (15.50)	0.9919	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00101942	Calmin	Y 84	99% (14.37)	0.9918	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00025333	Isoform 3 of Anamorsin	Y 265	99% (14.14)	0.9915	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00387130	Isoform 1 of Anamorsin	Y 278	99% (14.14)	0.9915	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00643014	retinoblastoma-associated factor 600	Y 4622	99% (19.86)	0.9909	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00746934	574 kDa protein	Y 4623	99% (19.86)	0.9909	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00290652	remodeling and spacing factor 1	Y 1217	99% (19.86)	0.9903	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514411	Isoform 2 of Hepatitis B virus X-associated protein	Y 1176	99% (19.86)	0.9903	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00023095	Myeloid leukemia factor 2	Y 121	99% (19.71)	0.9893	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00418169	annexin A2 isoform 1	Y 256	99% (24.32)	0.9890	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00455315	Annexin A2	Y 237	99% (24.32)	0.9890	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00026689	Hypothetical protein DKFZp686L20222	Y 166	99% (21.94)	0.9873	5	7	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	1	1	0
IPI00028955	Ribosome biogenesis protein BOP1	Y 122	99% (22.07)	0.9858	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00031960	polymerase (RNA) I polypeptide A, 194kDa	Y 1427	99% (9.11)	0.9851	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00032342	Thyroid receptor-interacting protein 12	Y 1015	99% (9.11)	0.9851	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00104050	Thyroid hormone receptor-associated protein 3	Y 54	98% (9.34)	0.9847	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00015833	Coiled-coil-helix-coiled-coil-helix domain-containing protein 3	Y 49	98% (21.94)	0.9811	12	17	0	0	0	0	3	1	0	0	0	0	4	0	0	0	0	0	3	1	0	0	0	2	3	0	0	0	0	2	3	1	0	0	0	2	4	0
IPI00299254	Eukaryotic translation initiation factor 5B	Y 134	98% (14.02)	0.9805	10	15	2	1	0	0	0	0	2	1	0	0	0	0	3	1	0	0	0	0	5	3	0	0	0	0	2	1	0	0	0	0	2	2	0	0	0	0
IPI00182289	40S ribosomal protein S29	Y 6	98% (8.26)	0.9782	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00738810	PREDICTED: similar to 40S ribosomal protein S29	Y 7	98% (8.26)	0.9782	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00006079	Isoform 1 of Bcl-2-associated transcription factor 1	Y 383	98% (19.86)	0.9770	15	10	1	2	0	1	0	1	1	2	0	0	0	1	2	3	1	0	0	0	1	2	0	0	0	0	1	1	1	0	0	0	1	2	1	0	0	0
IPI00413671	Isoform 2 of Bcl-2-associated transcription factor 1	Y 381	98% (19.86)	0.9770	15	10	1	2	0	1	0	1	1	2	0	0	0	1	2	3	1	0	0	0	1	2	0	0	0	0	1	1	1	0	0	0	1	2	1	0	0	0
IPI00413672	Isoform 3 of Bcl-2-associated transcription factor 1	Y 381	98% (19.86)	0.9770	15	10	1	2	0	1	0	1	1	2	0	0	0	1	2	3	1	0	0	0	1	2	0	0	0	0	1	1	1	0	0	0	1	2	1	0	0	0
IPI00012199	Hypothetical protein FLJ22321	Y 109	98% (8.14)	0.9768	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00220834	ATP-dependent DNA helicase 2 subunit 2	Y 443	98% (8.96)	0.9759	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00026256	Filaggrin	Y 215	98% (19.69)	0.9752	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00297261	Tyrosine-protein phosphatase non-receptor type 1	Y 46	97% (16.15)	0.9737	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005202	Membrane-associated progesterone receptor component 2	Y 210	96% (14.19)	0.9634	4	6	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	2	0	0	0	0	1	1	0
IPI00290652	remodeling and spacing factor 1	Y 1281	96% (12.20)	0.9615	3	3	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00514411	Isoform 2 of Hepatitis B virus X-associated protein	Y 1240	96% (12.20)	0.9615	3	3	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00009286	Isoform 1 of Zinc finger protein HRX	Y 906	96% (15.24)	0.9614	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00100106	resistance to inhibitors of cholinesterase 8 homolog A	Y 441	96% (16.66)	0.9613	7	7	0	0	1	0	0	0	0	0	1	1	0	0	0	0	2	2	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	2	1	0	0
IPI00216689	Poly(rC)-binding protein 2	Y 182	96% (13.05)	0.9613	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00012074	Heterogeneous nuclear ribonucleoprotein R	Y 30	96% (16.96)	0.9566	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00027280	Isoform Beta-2 of DNA topoisomerase 2-beta	Y 1453	96% (20.41)	0.9564	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00217709	Isoform Beta-1 of DNA topoisomerase 2-beta	Y 1448	96% (20.41)	0.9564	3	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00012885	Isoform 1 of Focal adhesion kinase 1	Y 180	95% (6.47)	0.9516	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00413961	PTK2 protein tyrosine kinase 2 isoform b	Y 202	95% (6.47)	0.9516	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00749256	PTK2 protein tyrosine kinase 2 isoform b variant (Fragment)	Y 91	95% (6.47)	0.9516	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00023283	Isoform 2 of Titin	Y 10586	95% (8.11)	0.9516	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00029764	Splicing factor 3A subunit 3	Y 185	95% (12.62)	0.9458	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00065931	A-kinase anchor protein 13 isoform 1	Y 2273	95% (14.19)	0.9453	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00006079	Isoform 1 of Bcl-2-associated transcription factor 1	Y 219	94% (19.16)	0.9427	3	4	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0
IPI00413671	Isoform 2 of Bcl-2-associated transcription factor 1	Y 217	94% (19.16)	0.9427	3	4	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0
IPI00413672	Isoform 3 of Bcl-2-associated transcription factor 1	Y 217	94% (19.16)	0.9427	3	4	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0
IPI00177381	hypothetical protein LOC57703	Y 33	94% (6.41)	0.9426	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00030466	PREDICTED: hypothetical protein LOC26115 isoform 1	Y 1743	94% (16.76)	0.9420	2	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00396057	Isoform C of Protein C9orf10	Y 393	94% (19.69)	0.9394	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00743942	Similar to C90rf10-like protein	Y 392	94% (19.69)	0.9394	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00413734	Isoform 6 of Transcriptional regulator ATRX	Y 995	93% (26.31)	0.9348	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00016670	FLJ20625 protein	Y 5	93% (6.88)	0.9340	2	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00334715	172 kDa protein	Y 1105	93% (14.02)	0.9253	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00477498	Isoform 1 of Glucocorticoid receptor DNA-binding factor 1	Y 1105	93% (14.02)	0.9253	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00718985	Isoform 2 of Glucocorticoid receptor DNA-binding factor 1	Y 1105	93% (14.02)	0.9253	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00409640	LISCH protein isoform 2	Y 535	92% (11.13)	0.9233	3	3	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00409641	LISCH protein isoform 3	Y 467	92% (11.13)	0.9233	3	3	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00641640	LISCH protein isoform 1	Y 516	92% (11.13)	0.9233	3	3	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00004233	Isoform Long of Antigen KI-67	Y 351	92% (11.36)	0.9230	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00301293	antigen identified by monoclonal antibody Ki-67	Y 351	92% (11.36)	0.9230	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
IPI00304589	182 kDa tankyrase 1-binding protein	Y 918	92% (11.10)	0.9228	4	5	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0
IPI00464952	Splicing factor arginine/serine-rich 11	Y 432	92% (11.10)	0.9228	12	12	1	1	1	1	0	0	1	1	1	2	0	0	1	1	1	0	0	0	0	1	1	1	0	0	1	1	1	1	0	1	0	2	1	1	0	0
IPI00641287	Splicing factor p54	Y 431	92% (11.10)	0.9228	12	12	1	1	1	1	0	0	1	1	1	2	0	0	1	1	1	0	0	0	0	1	1	1	0	0	1	1	1	1	0	1	0	2	1	1	0	0
IPI00641842	Splicing factor, arginine¥/serine-rich 11	Y 372	92% (11.10)	0.9228	12	12	1	1	1	1	0	0	1	1	1	2	0	0	1	1	1	0	0	0	0	1	1	1	0	0	1	1	1	1	0	1	0	2	1	1	0	0
IPI00295457	myosin phosphatase-Rho interacting protein isoform 1	Y 941	92% (13.86)	0.9226	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00166612	cardiomyopathy associated 5	Y 3688	90% (12.43)	0.9045	1	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00303343	Serine arginine-rich pre-mRNA splicing factor SR-A1	Y 238	90% (12.81)	0.9031	3	6	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0	1	0	1	0	0	1	0	1	0	0	0
IPI00005146	Hypothetical protein A-362G6.1	Y 1144	90% (9.92)	0.9024	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00024970	Inner centromere protein	Y 827	90% (8.93)	0.8993	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00759472	inner centromere protein antigens 135/155kDa isoform 2	Y 818	90% (8.93)	0.8993	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00165970	Isoform 1 of DGCR8 protein	Y 267	90% (13.99)	0.8990	5	3	0	1	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00549380	Isoform 3 of DGCR8 protein	Y 267	90% (13.99)	0.8990	5	3	0	1	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00302594	hypothetical protein LOC91748	Y 630	90% (16.36)	0.8960	4	5	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0
IPI00006079	Isoform 1 of Bcl-2-associated transcription factor 1	Y 284	89% (14.02)	0.8926	10	11	0	3	0	0	0	0	1	3	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	1	1	2	0	0	0	1	3	0	0	0	1
IPI00413671	Isoform 2 of Bcl-2-associated transcription factor 1	Y 282	89% (14.02)	0.8926	10	11	0	3	0	0	0	0	1	3	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	1	1	2	0	0	0	1	3	0	0	0	1
IPI00413672	Isoform 3 of Bcl-2-associated transcription factor 1	Y 282	89% (14.02)	0.8926	10	11	0	3	0	0	0	0	1	3	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	1	1	2	0	0	0	1	3	0	0	0	1
IPI00029702	Isoform 1 of Protein tyrosine kinase 2 beta	Y 135	89% (13.65)	0.8907	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00216435	Isoform 2 of Protein tyrosine kinase 2 beta	Y 135	89% (13.65)	0.8907	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00220740	Isoform 2 of Nucleophosmin	Y 67	88% (12.44)	0.8813	26	37	1	1	1	1	1	1	1	2	2	4	1	1	0	3	2	3	0	1	2	3	1	3	1	1	2	2	4	4	2	1	2	2	3	4	0	0
IPI00031627	DNA-directed RNA polymerase II largest subunit	Y 1883	88% (17.08)	0.8791	2	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00470461	Hypothetical protein DKFZp686L2367	Y 1786	88% (4.27)	0.8771	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																						SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00023283	Isoform 2 of Titin	Y 10580	88% (4.67)	0.8762	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00375358	Isoform 1 of Replication factor C subunit 1	Y 67	87% (11.10)	0.8712	3	2	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00375359	Isoform 2 of Replication factor C subunit 1	Y 67	87% (11.10)	0.8712	3	2	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00337530	Isoform 1 of RalBP1-associated Eps domain-containing protein 1	Y 223	86% (11.10)	0.8611	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00337532	Isoform 3 of RalBP1-associated Eps domain-containing protein 1	Y 223	86% (11.10)	0.8611	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00220739	Membrane-associated progesterone receptor component 1	Y 179	86% (11.10)	0.8611	10	9	0	0	0	0	2	1	0	0	1	1	1	0	0	0	1	1	0	2	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	3	0	0
IPI00291946	Ubiquitin carboxyl-terminal hydrolase 10	Y 369	86% (11.06)	0.8599	2	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00013721	Serine/threonine-protein kinase PRP4 homolog	Y 140	86% (11.01)	0.8587	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00640818	Neuropathy target esterase	Y 1127	86% (13.83)	0.8567	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
IPI00187011	Zinc finger CCCH-type domain-containing protein C19orf7	Y 158	85% (14.63)	0.8523	7	7	0	2	0	0	0	0	1	0	2	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	1	1	1	0	0	0
IPI00004962	golgi phosphoprotein 4	Y 641	85% (15.42)	0.8512	5	6	1	1	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00002564	DNA-repair protein XRCC1	Y 565	84% (3.60)	0.8377	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00031627	DNA-directed RNA polymerase II largest subunit	Y 1876	84% (14.02)	0.8366	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
IPI00329573	Isoform Long of Collagen alpha-1(XII) chain precursor	Y 1787	83% (12.31)	0.8335	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00641961	Collagen, type XII, alpha 1	Y 1787	83% (12.31)	0.8335	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00745263	collagen, type XII, alpha 1 long isoform precursor	Y 1787	83% (12.31)	0.8335	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00299254	Eukaryotic translation initiation factor 5B	Y 593	83% (13.05)	0.8330	5	4	0	1	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0
IPI00018370	Isoform 2 of Supervillin	Y 540	83% (10.14)	0.8313	7	3	1	1	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00216219	Isoform Long of Tight junction protein ZO-1	Y 132	83% (8.22)	0.8304	5	5	0	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0
IPI00744288	Isoform 5 of C-jun-amino-terminal kinase-interacting protein 4	Y 925	83% (2.60)	0.8263	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00410717	Isoform 1 of Pogo transposable element with ZNF domain	Y 778	82% (1.42)	0.8209	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00410718	pogo transposable element with ZNF domain isoform 2	Y 725	82% (1.42)	0.8209	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00410719	Isoform 3 of Pogo transposable element with ZNF domain	Y 734	82% (1.42)	0.8209	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514078	Pogo transposable element with ZNF domain	Y 683	82% (1.42)	0.8209	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514439	pogo transposable element with ZNF domain isoform 1	Y 778	82% (1.42)	0.8209	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514770	Pogo transposable element with ZNF domain	Y 734	82% (1.42)	0.8209	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00004413	Tumor necrosis factor receptor superfamily member 21 precursor	Y 460	81% (9.95)	0.8098	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219726	Isoform 2AC of Catenin delta-1	Y 267	81% (11.10)	0.8072	5	5	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0
IPI00219728	Isoform 2A of Catenin delta-1	Y 267	81% (11.10)	0.8072	3	5	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0
IPI00419979	p21-activated kinase 2	Y 139	81% (11.10)	0.8072	5	3	1	0	1	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
IPI00031627	DNA-directed RNA polymerase II largest subunit	Y 1897	81% (17.08)	0.8066	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00008490	UNC93 homolog B1	Y 541	81% (6.75)	0.8057	1	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00027248	Tumor suppressor candidate 2	Y 52	80% (11.02)	0.8043	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00383085	FLJ00144 protein (Fragment)	Y 252	78% (2.61)	0.7827	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00019870	Isoform Alpha of Caveolin-2	Y 19	78% (5.87)	0.7783	3	3	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0
IPI00386526	caveolin 2 isoform c	Y 19	78% (5.87)	0.7783	3	3	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0
IPI00299463	Nibrin	Y 429	74% (7.97)	0.7437	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
IPI00607775	nibrin isoform 2	Y 347	74% (7.97)	0.7437	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
IPI00289491	Protein CASC3	Y 263	73% (2.44)	0.7330	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00260388	PHD finger protein 2	Y 904	72% (5.31)	0.7241	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00376493	PHD finger protein 2 isoform b	Y 904	72% (5.31)	0.7241	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00477501	121 kDa protein	Y 903	72% (5.31)	0.7241	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00027415	DEAH (Asp-Glu-Ala-His) box polypeptide 36	Y 1007	72% (5.31)	0.7241	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00217760	DHX36 protein	Y 978	72% (5.31)	0.7241	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00411635	KIAA0802 protein	Y 179	68% (9.42)	0.6804	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00183535	Isoform 1 of REST corepressor 3	Y 173	68% (0.00)	0.6785	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00383396	Isoform 1 of Autophagy-related protein 9A	Y 15	68% (8.22)	0.6781	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00465087	Ubiquitin carboxyl-terminal hydrolase BAP1	Y 394	68% (8.22)	0.6781	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00014376	RAB31, member RAS oncogene family variant	Y 76	67% (4.05)	0.6735	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219340	Isoform 2 of Dual specificity protein kinase CLK3	Y 7	67% (8.26)	0.6658	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00104050	Thyroid hormone receptor-associated protein 3	Y 704	66% (8.26)	0.6626	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00006213	Pericentriol material 1	Y 536	66% (5.55)	0.6569	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00297982	Eukaryotic translation initiation factor 2 subunit 3	Y 203	63% (4.98)	0.6324	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0
IPI00021129	Isoform 1 of AP-3 complex subunit beta-1	Y 274	61% (0.99)	0.6124	3	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00304866	Tumor necrosis factor, alpha-induced protein 2	Y 275	61% (5.47)	0.6069	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00409671	DEAD box polypeptide 42 protein	Y 183	58% (8.96)	0.5831	3	6	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	1	2	0	0	0	0
IPI00748891	26 kDa protein	Y 92	58% (6.04)	0.5820	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00008274	Adenylyl cyclase-associated protein 1	Y 30	57% (7.38)	0.5665	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00298738	DNA-directed RNA polymerase, mitochondrial precursor	Y 1155	56% (5.41)	0.5569	5	1	1	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00186711	plectin 1 isoform 6	Y 4612	54% (7.21)	0.5447	3	1	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00398002	plectin 1 isoform 1	Y 4502	54% (7.21)	0.5447	3	1	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00398779	plectin 1 isoform 11	Y 4475	54% (7.21)	0.5447	3	1	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00216219	Isoform Long of Tight junction protein ZO-1	Y 898	54% (9.42)	0.5416	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0
IPI00386119	Isoform 5 of Splicing factor 1	Y 211	51% (9.67)	0.5106	7	6	0	0	0	1	0	0	0	0	1	1	0	0	1	0	2	1	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	1	0	0
IPI00017030	Isoform 1 of Myosin-18A	Y 2042	51% (0.00)	0.5102	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005036	RNA-binding protein 5	Y 620	51% (0.00)	0.5059	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00297655	Neurogenic locus notch homolog protein 2 precursor	Y 1680	51% (0.05)	0.5052	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00744005	notch 2 preproprotein	Y 1680	51% (0.05)	0.5052	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00418185	Hypothetical protein FLJ20097	Y 285	49% (4.12)	0.4950	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00553067	hypothetical protein LOC55610 isoform a	Y 554	49% (4.12)	0.4950	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00030131	thymopoietin isoform beta	Y 183	48% (4.85)	0.4784	18	16	0	0	2	3	1	0	0	1	3	1	1	0	0	1	2	2	1	0	0	1	1	2	1	0	0	0	2	2	1	0	0	1	4	1	0	0
IPI00337315	Isoform 1 of Retinoblastoma-binding protein 6	Y 1641	47% (8.11)	0.4750	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00376283	Isoform 2 of Retinoblastoma-binding protein 6	Y 1607	47% (8.11)	0.4750	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00382585	182 kDa protein	Y 1464	47% (8.11)	0.4750	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00375731	Hypothetical protein DKFZp686E2459	Y 797	45% (0.00)	0.4523	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00021263	14-3-3 protein zeta/delta	Y 128	44% (1.40)	0.4443	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00021320	Bin3, bicoid-interacting 3	Y 634	44% (2.99)	0.4432	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00031627	DNA-directed RNA polymerase II largest subunit	Y 1855	44% (22.17)	0.4398	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00010700	Isoform 1 of Large proline-rich protein BAT2	Y 1094	44% (8.96)	0.4354	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00084746	229 kDa protein	Y 1094	44% (8.96)	0.4354	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00376933	HLA-B associated transcript-2 isoform b	Y 1082	44% (8.96)	0.4354	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00742934	HLA-B associated transcript-2 isoform a	Y 1094	44% (8.96)	0.4354	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00549725	Phosphoglycerate mutase 1	Y 118	42% (6.12)	0.4173	16	11	0	0	0	0	6	0	0	0	0	0	5	0	0	0	0	0	5	0	0	0	0	2	4	0	0	0	0	0	2	0	0	0	0	3	0
IPI00005036	RNA-binding protein 5	Y 76	40% (3.60)	0.3999	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
IPI00304589	182 kDa tankyrase 1-binding protein	Y 897	40% (4.55)	0.3974	2	3	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00017746	BRCA1-associated RING domain protein 1	Y 597	38% (5.08)	0.3778	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00440932	Isoform 1 of ADAM 9 precursor	Y 736	36% (2.99)	0.3625	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00747759	91 kDa protein	Y 738	36% (2.99)	0.3625	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00289776	Isoform 1 of Probable ubiquitin ligase protein MYCBP2	Y 2836	36% (6.67)	0.3604	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
IPI00607852	Isoform 2 of Probable ubiquitin ligase protein MYCBP2	Y 2836	36% (6.67)	0.3604	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
IPI00022661	Isoform Delta of Poliovirus receptor-related protein 2 precursor	Y 406	36% (5.37)	0.3571	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00163420	Isoform 3 of Receptor-type tyrosine-protein phosphatase alpha precursor	Y 173	35% (1.66)	0.3533	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00304030	Isoform 4 of Receptor-type tyrosine-protein phosphatase alpha precursor	Y 164	35% (1.66)	0.3533	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00413734	Isoform 6 of Transcriptional regulator ATRX	Y 89	35% (4.66)	0.3530	2	3	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00183794	zinc finger protein 265 isoform 2	Y 114	34% (1.12)	0.3411	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IPI00186711	plectin 1 isoform 6	Y 4393	34% (5.59)	0.3392	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00398002	plectin 1 isoform 1	Y 4283	34% (5.59)	0.3392	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00398779	plectin 1 isoform 11	Y 4256	34% (5.59)	0.3392	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00164434	Isoform 1 of Receptor expression-enhancing protein 3	Y 209	34% (0.00)	0.3350	1	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00302594	hypothetical protein LOC91748	Y 654	33% (0.00)	0.3333	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00176706	Splicing factor 45	Y 214	33% (5.87)	0.3271	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00479589	RNA binding motif protein 17	Y 121	33% (5.87)	0.3271	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00646846	RNA binding motif protein 17	Y 182	33% (5.87)	0.3271	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00008918	Isoform Beta of LIM domain and actin-binding protein 1	Y 229	31% (5.47)	0.3122	2	5	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
IPI00297254	Signal-induced proliferation-associated 1-like protein 3	Y 202	31% (2.99)	0.3067	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00003843	Isoform A1 of Tight junction protein ZO-2	Y 1157	29% (5.60)	0.2894	2	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00022143	Isoform 1 of Protein FAM62A	Y 822	29% (2.61)	0.2860	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00029778	Isoform 1 of Tumor suppressor p53-binding protein 1	Y 812	28% (12.77)	0.2839	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00742743	Isoform 2 of Tumor suppressor p53-binding protein 1	Y 817	28% (12.77)	0.2839	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00102752	Isoform 1 of Putative RNA-binding protein 15	Y 266	28% (0.00)	0.2779	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00220716	Isoform 2 of Putative RNA-binding protein 15	Y 266	28% (0.00)	0.2779	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00220717	Isoform 3 of Putative RNA-binding protein 15	Y 266	28% (0.00)	0.2779	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00418185	Hypothetical protein FLJ20097	Y 288	27% (11.10)	0.2737	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00553067	hypothetical protein LOC55610 isoform a	Y 557	27% (11.10)	0.2737	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00006079	Isoform 1 of Bcl-2-associated transcription factor 1	Y 511	27% (3.44)	0.2699	2	3	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
IPI00413671	Isoform 2 of Bcl-2-associated transcription factor 1	Y 509	27% (3.44)	0.2699	2	3	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
IPI00413672	Isoform 3 of Bcl-2-associated transcription factor 1	Y 509	27% (3.44)	0.2699	2	3	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
IPI00746419	IMP dehydrogenase/GMP reductase family protein	Y 1291	25% (0.00)	0.2500	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00237884	Isoform 1 of A-kinase anchor protein 12	Y 373	25% (2.58)	0.2458	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00063605	jub, ajuba homolog isoform 1	Y 231	24% (0.00)	0.2421	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
IPI00021954	Golgi-specific brefeldin A-resistance guanine nucleotide exchange factor 1	Y 1316	22% (1.32)	0.2224	2	2	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
IPI00514669	SH3 domain binding glutamic acid-rich protein like 3	Y 7	20% (2.45)	0.2027	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00746352	SH3 domain-binding glutamic acid-rich-like protein 3	Y 7	20% (2.45)	0.2027	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00005154	Structure-specific recognition protein 1	Y 438	20% (0.00)	0.2000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
IPI00216049	Isoform 1 of Heterogeneous nuclear ribonucleoprotein K	Y 380	20% (0.00)	0.2000	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
IPI00022624	Retinoic acid-induced protein 3	Y 300	18% (2.99)	0.1822	2	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00014414	Bromodomain-containing protein 2	Y 631	17% (2.24)	0.1708	4	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00440502	BRD2 protein	Y 666	17% (2.24)	0.1708	4	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00645146	88 kDa protein	Y 631	17% (2.24)	0.1708	4	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00748005	92 kDa protein	Y 666	17% (2.24)	0.1708	4	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00329236	Protein kinase C delta type	Y 646	17% (0.00)	0.1667	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00384562	protein kinase C, delta	Y 646	17% (0.00)	0.1667	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplemental Table 3. A list of phosphorylation sites and their counts in SNU216 and SNU216-LR.

Protein accession	Protein name	Site	Best Ascore[1]	Localization Probability[2]	Total No.		SNU216																		SNU216-LR																	
					SNU 216	SNU 216LR	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03	1_01	2_01	3_01	4_01	5_01	6_01	1_02	2_02	3_02	4_02	5_02	6_02	1_03	2_03	3_03	4_03	5_03	6_03
IPI00658152	tensin-like SH2 domain containing 1	Y 333	17% (0.00)	0.1667	* 3	* 4	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0
IPI00759836	Tensin	Y 435	17% (0.00)	0.1667	* 3	* 4	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0
IPI00022145	Nuclear ubiquitous casein and cyclin-dependent kinases substrate	Y 13	16% (0.00)	0.1643	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00169307	Rho GTPase activating protein 21	Y 881	16% (0.00)	0.1633	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
IPI00184330	DNA replication licensing factor MCM2	Y 137	16% (0.00)	0.1601	* 1	* 2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IPI00297723	RNA-binding protein 6	Y 914	15% (-2.15)	0.1544	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00015924	Isoform 1 of Tuftelin-interacting protein 11	Y 51	15% (3.22)	0.1512	* 1	* 2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
IPI00221106	splicing factor 3B subunit 2	Y 371	13% (1.21)	0.1333	* 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00373870	Isoform 1 of Chromodomain helicase-DNA-binding protein 3	Y 595	13% (0.00)	0.1323	0	* 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00465222	chromodomain helicase DNA binding protein 3 isoform 3	Y 640	13% (0.00)	0.1323	0	* 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
IPI00027280	Isoform Beta-2 of DNA topoisomerase 2-beta	Y 1370	13% (0.00)	0.1284	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00217709	Isoform Beta-1 of DNA topoisomerase 2-beta	Y 1365	13% (0.00)	0.1284	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219726	Isoform 2AC of Catenin delta-1	Y 174	13% (0.00)	0.1276	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IPI00219728	Isoform 2A of Catenin delta-1	Y 174	13% (0.00)	0.1276	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IPI00171273	Isoform A of Myotubularin-related protein 3	Y 1147	12% (0.00)	0.1250	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00171274	Isoform C of Myotubularin-related protein 3	Y 1138	12% (0.00)	0.1250	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00185018	Isoform B of Myotubularin-related protein 3	Y 1175	12% (0.00)	0.1250	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IPI00099834	Ubinuclein	Y 239	12% (0.00)	0.1221	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00031195	Isoform 1 of Vang-like protein 1	Y 344	11% (-9.72)	0.1084	* 1	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00386349	Isoform 2 of Vang-like protein 1	Y 342	11% (-9.72)	0.1084	* 1	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00000861	Isoform 1 of LIM and SH3 domain protein 1	Y 152	11% (0.00)	0.1052	* 1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00386803	Isoform 2 of LIM and SH3 domain protein 1	Y 152	11% (0.00)	0.1052	* 1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00742786	36 kDa protein	Y 152	11% (0.00)	0.1052	* 1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00027280	Isoform Beta-2 of DNA topoisomerase 2-beta	Y 1421	10% (0.00)	0.1015	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00217709	Isoform Beta-1 of DNA topoisomerase 2-beta	Y 1416	10% (0.00)	0.1015	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
IPI00015833	Coiled-coil-helix-coiled-coil-helix domain-containing protein 3	Y 53	10% (-2.09)	0.0961	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00031627	DNA-directed RNA polymerase II largest subunit	Y 1904	8% (0.00)	0.0769	* 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00329547	Isoform 1 of Zinc finger CCCH-type domain-containing protein 13	Y 851	8% (0.00)	0.0766	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00007765	Stress-70 protein, mitochondrial precursor	Y 118	6% (0.00)	0.0612	* 1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00554788	Keratin, type I cytoskeletal 18	Y 36	6% (-6.67)	0.0595	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IPI00479145	Keratin, type I cytoskeletal 19	Y 65	6% (0.00)	0.0580	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IPI00456631	Isoform 1 of Lysine-specific histone demethylase 1	Y 136	3% (0.00)	0.0345	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00219675	Isoform B of Ras-related C3 botulinum toxin substrate 1 precursor	Y 72	3% (-4.44)	0.0269	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IPI00396378	Isoform B1 of Heterogeneous nuclear ribonucleoproteins A2/B1	Y 247	2% (5.67)	0.0185	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
IPI00413659	Isoform 2 of Alkylated repair protein alkB homolog 5	Y 60	2% (0.00)	0.0156	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00759562	Isoform 1 of Alkylated repair protein alkB homolog 5	Y 60	2% (0.00)	0.0156	0	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00290652	remodeling and spacing factor 1	Y 1341	0% (-2.47)	0.0017	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IPI00514411	Isoform 2 of Hepatitis B virus X-associated protein	Y 1300	0% (-2.47)	0.0017	* 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Protein IPI name and accession number are shown based on its description in the uniprot database. Additional columns describe phosphorylation sites, Ascore, localization probability, and number of sites identified in SNU216 and SNU216-LR.