

Supplemental Table 1: Transitions used for quantification of the indicated proteins

Protein Code (Swissprot)	Peptide Sequence	Light/Heavy	Precursor Mz	Precursor Charge	Product Mz	Product Charge	Fragment Ion
sp P00331 ADH2_YEAST	ANGTVVLVGLPAGAK	L	683,906276	2	712,435201	1	y8
sp P00331 ADH2_YEAST	ANGTVVLVGLPAGAK	L	683,906276	2	613,366787	1	y7
sp P00331 ADH2_YEAST	ANGTVVLVGLPAGAK	L	683,906276	2	443,261259	1	y5
sp P00331 ADH2_YEAST	ANGTVVLVGLPAGAK	H	687,913376	2	720,4494	1	y8
sp P00331 ADH2_YEAST	ANGTVVLVGLPAGAK	H	687,913376	2	621,380986	1	y7
sp P00331 ADH2_YEAST	ANGTVVLVGLPAGAK	H	687,913376	2	451,275458	1	y5
sp P00331 ADH2_YEAST	VVGLSSLPEIYEK	L	717,39795	2	1065,546267	1	y9
sp P00331 ADH2_YEAST	VVGLSSLPEIYEK	L	717,39795	2	778,398146	1	y6
sp P00331 ADH2_YEAST	VVGLSSLPEIYEK	L	717,39795	2	439,218725	1	y3
sp P00331 ADH2_YEAST	VVGLSSLPEIYEK	H	721,405049	2	1073,560466	1	y9
sp P00331 ADH2_YEAST	VVGLSSLPEIYEK	H	721,405049	2	786,412345	1	y6
sp P00331 ADH2_YEAST	VVGLSSLPEIYEK	H	721,405049	2	447,232924	1	y3
sp P32191 GPDM_YEAST	MSNYLVQNYGTR	L	723,345725	2	950,505406	1	y8
sp P32191 GPDM_YEAST	MSNYLVQNYGTR	L	723,345725	2	837,421342	1	y7
sp P32191 GPDM_YEAST	MSNYLVQNYGTR	L	723,345725	2	738,352928	1	y6
sp P32191 GPDM_YEAST	MSNYLVQNYGTR	H	728,34986	2	960,513675	1	y8
sp P32191 GPDM_YEAST	MSNYLVQNYGTR	H	728,34986	2	847,429611	1	y7
sp P32191 GPDM_YEAST	MSNYLVQNYGTR	H	728,34986	2	748,361197	1	y6
sp P32191 GPDM_YEAST	TPLDFLLR	L	487,78711	2	776,466501	1	y6
sp P32191 GPDM_YEAST	TPLDFLLR	L	487,78711	2	663,382437	1	y5
sp P32191 GPDM_YEAST	TPLDFLLR	L	487,78711	2	437,26327	2	y7
sp P32191 GPDM_YEAST	TPLDFLLR	H	492,791244	2	786,47477	1	y6
sp P32191 GPDM_YEAST	TPLDFLLR	H	492,791244	2	673,390706	1	y5
sp P32191 GPDM_YEAST	TPLDFLLR	H	492,791244	2	442,267405	2	y7
sp Q07540 FRDA_YEAST	LTDILTEEVEK	L	645,345383	2	1075,551747	1	y9
sp Q07540 FRDA_YEAST	LTDILTEEVEK	L	645,345383	2	847,44074	1	y7
sp Q07540 FRDA_YEAST	LTDILTEEVEK	L	645,345383	2	734,356676	1	y6
sp Q07540 FRDA_YEAST	LTDILTEEVEK	H	649,352482	2	1083,565946	1	y9
sp Q07540 FRDA_YEAST	LTDILTEEVEK	H	649,352482	2	855,454939	1	y7
sp Q07540 FRDA_YEAST	LTDILTEEVEK	H	649,352482	2	742,370875	1	y6

sp Q07540 FRDA_YEAST	QIWLASPLSGP NR	L	719,8937	2	1197,637482	1	y11
sp Q07540 FRDA_YEAST	QIWLASPLSGP NR	L	719,8937	2	898,474105	1	y9
sp Q07540 FRDA_YEAST	QIWLASPLSGP NR	L	719,8937	2	827,436992	1	y8
sp Q07540 FRDA_YEAST	QIWLASPLSGP NR	H	724,897834	2	1207,645751	1	y11
sp Q07540 FRDA_YEAST	QIWLASPLSGP NR	H	724,897834	2	908,482374	1	y9
sp Q07540 FRDA_YEAST	QIWLASPLSGP NR	H	724,897834	2	837,445261	1	y8
sp P39676 FHP_YEAST	VGAQPNALATTVLAAAK	L	798,459404	2	1240,725963	1	y13
sp P39676 FHP_YEAST	VGAQPNALATTVLAAAK	L	798,459404	2	774,47198	1	y8
sp P39676 FHP_YEAST	VGAQPNALATTVLAAAK	L	798,459404	2	620,86662	2	y13
sp P39676 FHP_YEAST	VGAQPNALATTVLAAAK	H	802,466504	2	1248,740162	1	y13
sp P39676 FHP_YEAST	VGAQPNALATTVLAAAK	H	802,466504	2	782,486179	1	y8
sp P39676 FHP_YEAST	VGAQPNALATTVLAAAK	H	802,466504	2	624,873719	2	y13
sp P39676 FHP_YEAST	ATVPVLEQQGTVITR	L	806,456861	2	1144,632063	1	y10
sp P39676 FHP_YEAST	ATVPVLEQQGTVITR	L	806,456861	2	646,38825	1	y6
sp P39676 FHP_YEAST	ATVPVLEQQGTVITR	L	806,456861	2	670,880258	2	y12
sp P39676 FHP_YEAST	ATVPVLEQQGTVITR	H	811,460996	2	1154,640332	1	y10
sp P39676 FHP_YEAST	ATVPVLEQQGTVITR	H	811,460996	2	656,396519	1	y6
sp P39676 FHP_YEAST	ATVPVLEQQGTVITR	H	811,460996	2	675,884393	2	y12
sp P21801 DHSB_YEAST	DLVPDLTNFYQQYK	L	872,433052	2	1091,515636	1	y8
sp P21801 DHSB_YEAST	DLVPDLTNFYQQYK	L	872,433052	2	990,467957	1	y7
sp P21801 DHSB_YEAST	DLVPDLTNFYQQYK	L	872,433052	2	708,843341	2	y11
sp P21801 DHSB_YEAST	DLVPDLTNFYQQYK	H	876,440151	2	1099,529835	1	y8
sp P21801 DHSB_YEAST	DLVPDLTNFYQQYK	H	876,440151	2	998,482156	1	y7
sp P21801 DHSB_YEAST	DLVPDLTNFYQQYK	H	876,440151	2	712,850441	2	y11
sp P21801 DHSB_YEAST	DGTEVLQSIEDR	L	681,330795	2	959,515636	1	y8
sp P21801 DHSB_YEAST	DGTEVLQSIEDR	L	681,330795	2	419,188488	1	y3
sp P21801 DHSB_YEAST	DGTEVLQSIEDR	L	681,330795	2	502,214368	1	b5
sp P21801 DHSB_YEAST	DGTEVLQSIEDR	H	686,33493	2	969,523905	1	y8
sp P21801 DHSB_YEAST	DGTEVLQSIEDR	H	686,33493	2	429,196757	1	y3
sp P21801 DHSB_YEAST	DGTEVLQSIEDR	H	686,33493	2	502,214368	1	b5
sp Q00711 DHSA_YEAST	GEGGFLVNSEGER	L	675,817855	2	903,453036	1	y8
sp Q00711 DHSA_YEAST	GEGGFLVNSEGER	L	675,817855	2	790,368972	1	y7
sp Q00711 DHSA_YEAST	GEGGFLVNSEGER	L	675,817855	2	691,300558	1	y6

sp Q00711 DHSA_YEAST	GEGGFLVNSEGER	H	680,821989	2	913,461305	1	y8
sp Q00711 DHSA_YEAST	GEGGFLVNSEGER	H	680,821989	2	800,377241	1	y7
sp Q00711 DHSA_YEAST	GEGGFLVNSEGER	H	680,821989	2	701,308827	1	y6
sp Q00711 DHSA_YEAST	DVAAPVTLK	L	457,271292	2	553,298038	1	b6
sp Q00711 DHSA_YEAST	DVAAPVTLK	L	457,271292	2	699,439952	1	y7
sp Q00711 DHSA_YEAST	DVAAPVTLK	L	457,271292	2	628,402838	1	y6
sp Q00711 DHSA_YEAST	DVAAPVTLK	H	461,278392	2	707,454151	1	y7
sp Q00711 DHSA_YEAST	DVAAPVTLK	H	461,278392	2	636,417037	1	y6
sp Q00711 DHSA_YEAST	DVAAPVTLK	H	461,278392	2	565,379923	1	y5
sp P11412 G6PD_YEAST	FGNQFLNASWNR	L	727,352199	2	1007,50574	1	y8
sp P11412 G6PD_YEAST	FGNQFLNASWNR	L	727,352199	2	860,437326	1	y7
sp P11412 G6PD_YEAST	FGNQFLNASWNR	L	727,352199	2	747,353262	1	y6
sp P11412 G6PD_YEAST	FGNQFLNASWNR	H	732,356334	2	1017,514009	1	y8
sp P11412 G6PD_YEAST	FGNQFLNASWNR	H	732,356334	2	870,445595	1	y7
sp P11412 G6PD_YEAST	FGNQFLNASWNR	H	732,356334	2	757,361531	1	y6
sp P11412 G6PD_YEAST	TFPALFGLFR	L	584,829309	2	920,535249	1	y8
sp P11412 G6PD_YEAST	TFPALFGLFR	L	584,829309	2	752,445371	1	y6
sp P11412 G6PD_YEAST	TFPALFGLFR	L	584,829309	2	639,361307	1	y5
sp P11412 G6PD_YEAST	TFPALFGLFR	H	589,833443	2	930,543518	1	y8
sp P11412 G6PD_YEAST	TFPALFGLFR	H	589,833443	2	762,45364	1	y6
sp P11412 G6PD_YEAST	TFPALFGLFR	H	589,833443	2	649,369576	1	y5
sp P00410 COX2_YEAST	LNQVSALIQR	L	571,338029	2	786,483214	1	y7
sp P00410 COX2_YEAST	LNQVSALIQR	L	571,338029	2	687,4148	1	y6
sp P00410 COX2_YEAST	LNQVSALIQR	L	571,338029	2	600,382771	1	y5
sp P00410 COX2_YEAST	LNQVSALIQR	H	576,342164	2	796,491483	1	y7
sp P00410 COX2_YEAST	LNQVSALIQR	H	576,342164	2	697,423069	1	y6
sp P00410 COX2_YEAST	LNQVSALIQR	H	576,342164	2	610,39104	1	y5
sp P00410 COX2_YEAST	LLDTDTSMVVPVDTHIR	L	637,999664	3	936,526141	1	y8
sp P00410 COX2_YEAST	LLDTDTSMVVPVDTHIR	L	637,999664	3	837,457727	1	y7
sp P00410 COX2_YEAST	LLDTDTSMVVPVDTHIR	L	637,999664	3	419,232502	2	y7
sp P00410 COX2_YEAST	LLDTDTSMVVPVDTHIR	H	641,335753	3	946,53441	1	y8
sp P00410 COX2_YEAST	LLDTDTSMVVPVDTHIR	H	641,335753	3	847,465996	1	y7
sp P00410 COX2_YEAST	LLDTDTSMVVPVDTHIR	H	641,335753	3	424,236636	2	y7

sp P00401 COX1_YEAST	APDFVESNTIFNLNTVK	L	636,994907	3	835,467229	1	y7
sp P00401 COX1_YEAST	APDFVESNTIFNLNTVK	L	636,994907	3	688,398815	1	y6
sp P00401 COX1_YEAST	APDFVESNTIFNLNTVK	L	636,994907	3	574,355888	1	y5
sp P00401 COX1_YEAST	APDFVESNTIFNLNTVK	L	636,994907	3	461,271824	1	y4
sp P00401 COX1_YEAST	APDFVESNTIFNLNTVK	H	639,666307	3	843,481428	1	y7
sp P00401 COX1_YEAST	APDFVESNTIFNLNTVK	H	639,666307	3	696,413014	1	y6
sp P00401 COX1_YEAST	APDFVESNTIFNLNTVK	H	639,666307	3	582,370087	1	y5
sp P00401 COX1_YEAST	APDFVESNTIFNLNTVK	H	639,666307	3	469,286023	1	y4
sp P04840 VDAC1_YEAST	VSDSGIVTLAYK	L	626,84281	2	951,550959	1	y9
sp P04840 VDAC1_YEAST	VSDSGIVTLAYK	L	626,84281	2	864,51893	1	y8
sp P04840 VDAC1_YEAST	VSDSGIVTLAYK	L	626,84281	2	694,413403	1	y6
sp P04840 VDAC1_YEAST	VSDSGIVTLAYK	H	630,84991	2	959,565158	1	y9
sp P04840 VDAC1_YEAST	VSDSGIVTLAYK	H	630,84991	2	872,533129	1	y8
sp P04840 VDAC1_YEAST	VSDSGIVTLAYK	H	630,84991	2	702,427602	1	y6
sp P04840 VDAC1_YEAST	LEFANLTPGLK	L	601,842613	2	960,551293	1	y9
sp P04840 VDAC1_YEAST	LEFANLTPGLK	L	601,842613	2	742,445765	1	y7
sp P04840 VDAC1_YEAST	LEFANLTPGLK	L	601,842613	2	414,271095	1	y4
sp P04840 VDAC1_YEAST	LEFANLTPGLK	H	605,849713	2	968,565492	1	y9
sp P04840 VDAC1_YEAST	LEFANLTPGLK	H	605,849713	2	750,459964	1	y7
sp P04840 VDAC1_YEAST	LEFANLTPGLK	H	605,849713	2	422,285294	1	y4
sp P40215 NDH1_YEAST	GALAYIGSDK	L	497,763831	2	753,377745	1	y7
sp P40215 NDH1_YEAST	GALAYIGSDK	L	497,763831	2	682,340632	1	y6
sp P40215 NDH1_YEAST	GALAYIGSDK	L	497,763831	2	433,734543	2	y8
sp P40215 NDH1_YEAST	GALAYIGSDK	H	501,770931	2	761,391944	1	y7
sp P40215 NDH1_YEAST	GALAYIGSDK	H	501,770931	2	690,354831	1	y6
sp P40215 NDH1_YEAST	GALAYIGSDK	H	501,770931	2	437,741642	2	y8
sp P60010 ACT_YEAST	VAPEEHPVLLTEAPMNPK	L	658,011792	3	887,429129	1	y8
sp P60010 ACT_YEAST	VAPEEHPVLLTEAPMNPK	L	658,011792	3	786,381451	1	y7
sp P60010 ACT_YEAST	VAPEEHPVLLTEAPMNPK	L	658,011792	3	586,301744	1	y5
sp P60010 ACT_YEAST	VAPEEHPVLLTEAPMNPK	H	660,683192	3	895,443328	1	y8
sp P60010 ACT_YEAST	VAPEEHPVLLTEAPMNPK	H	660,683192	3	794,39565	1	y7
sp P60010 ACT_YEAST	VAPEEHPVLLTEAPMNPK	H	660,683192	3	594,315943	1	y5
sp P60010 ACT_YEAST	SYELPDGQVITIGNER	L	597,63549	3	802,441743	1	y7

sp P60010 ACT_YEAST	SYELPDGQVITIGNER	L	597,63549	3	689,357679	1	y6
sp P60010 ACT_YEAST	SYELPDGQVITIGNER	L	597,63549	3	475,225936	1	y4
sp P60010 ACT_YEAST	SYELPDGQVITIGNER	H	600,97158	3	812,450012	1	y7
sp P60010 ACT_YEAST	SYELPDGQVITIGNER	H	600,97158	3	699,365948	1	y6
sp P60010 ACT_YEAST	SYELPDGQVITIGNER	H	600,97158	3	485,234205	1	y4
sp P60010 ACT_YEAST	HQGIMVGMGQK	L	395,867087	3	436,230293	1	b4
sp P60010 ACT_YEAST	HQGIMVGMGQK	L	395,867087	3	567,270778	1	b5
sp P60010 ACT_YEAST	HQGIMVGMGQK	L	395,867087	3	520,254793	1	y5
sp P60010 ACT_YEAST	HQGIMVGMGQK	H	398,538487	3	436,230293	1	b4
sp P60010 ACT_YEAST	HQGIMVGMGQK	H	398,538487	3	567,270778	1	b5
sp P60010 ACT_YEAST	HQGIMVGMGQK	H	398,538487	3	528,268992	1	y5
sp P32340 NDI1_YEAST	YNDLGALAYLGSER	L	771,383362	2	1036,542185	1	y10
sp P32340 NDI1_YEAST	YNDLGALAYLGSER	L	771,383362	2	795,399543	1	y7
sp P32340 NDI1_YEAST	YNDLGALAYLGSER	L	771,383362	2	724,36243	1	y6
sp P32340 NDI1_YEAST	YNDLGALAYLGSER	H	776,387497	2	1046,550454	1	y10
sp P32340 NDI1_YEAST	YNDLGALAYLGSER	H	776,387497	2	805,407812	1	y7
sp P32340 NDI1_YEAST	YNDLGALAYLGSER	H	776,387497	2	734,370699	1	y6
sp P06169 PDC1_YEAST	TPANAAPVASTPLK	L	669,374809	2	883,524744	1	y9
sp P06169 PDC1_YEAST	TPANAAPVASTPLK	L	669,374809	2	812,48763	1	y8
sp P06169 PDC1_YEAST	TPANAAPVASTPLK	L	669,374809	2	713,419216	1	y7
sp P06169 PDC1_YEAST	TPANAAPVASTPLK	H	673,381908	2	891,538943	1	y9
sp P06169 PDC1_YEAST	TPANAAPVASTPLK	H	673,381908	2	820,501829	1	y8
sp P06169 PDC1_YEAST	TPANAAPVASTPLK	H	673,381908	2	721,433415	1	y7
sp P53312 SUCB_YEAST	DLSQEDPDEVK	L	637,790972	2	831,373054	1	y7
sp P53312 SUCB_YEAST	DLSQEDPDEVK	L	637,790972	2	587,303518	1	y5
sp P53312 SUCB_YEAST	DLSQEDPDEVK	L	637,790972	2	523,735468	2	y9
sp P53312 SUCB_YEAST	DLSQEDPDEVK	H	641,798071	2	839,387253	1	y7
sp P53312 SUCB_YEAST	DLSQEDPDEVK	H	641,798071	2	595,317717	1	y5
sp P53312 SUCB_YEAST	DLSQEDPDEVK	H	641,798071	2	527,742567	2	y9
sp P19414 ACON_YEAST	TIFTVTPGSEQIR	L	724,890823	2	562,323525	1	b5
sp P19414 ACON_YEAST	TIFTVTPGSEQIR	L	724,890823	2	887,458121	1	y8
sp P19414 ACON_YEAST	TIFTVTPGSEQIR	L	724,890823	2	786,410442	1	y7
sp P19414 ACON_YEAST	TIFTVTPGSEQIR	H	729,894957	2	562,323525	1	b5

sp P19414 ACON_YEAST	TIFTVTPGSEQIR	H	729,894957	2	897,46639	1	y8
sp P19414 ACON_YEAST	TIFTVTPGSEQIR	H	729,894957	2	796,418711	1	y7
sp P19414 ACON_YEAST	QNVETLDIVR	L	593,824952	2	944,541122	1	y8
sp P19414 ACON_YEAST	QNVETLDIVR	L	593,824952	2	845,472708	1	y7
sp P19414 ACON_YEAST	QNVETLDIVR	L	593,824952	2	716,430115	1	y6
sp P19414 ACON_YEAST	QNVETLDIVR	H	598,829086	2	954,549391	1	y8
sp P19414 ACON_YEAST	QNVETLDIVR	H	598,829086	2	855,480977	1	y7
sp P19414 ACON_YEAST	QNVETLDIVR	H	598,829086	2	726,438384	1	y6
sp P00890 CISY1_YEAST	AIGVLPQLIIDR	L	654,405912	2	1123,68337	1	y10
sp P00890 CISY1_YEAST	AIGVLPQLIIDR	L	654,405912	2	967,593492	1	y8
sp P00890 CISY1_YEAST	AIGVLPQLIIDR	L	654,405912	2	854,509428	1	y7
sp P00890 CISY1_YEAST	AIGVLPQLIIDR	H	659,410046	2	1133,691639	1	y10
sp P00890 CISY1_YEAST	AIGVLPQLIIDR	H	659,410046	2	977,601761	1	y8
sp P00890 CISY1_YEAST	AIGVLPQLIIDR	H	659,410046	2	864,517697	1	y7
sp P00330 ADH1_YEAST	ANELLINVK	L	507,303124	2	699,476337	1	y6
sp P00330 ADH1_YEAST	ANELLINVK	L	507,303124	2	586,392273	1	y5
sp P00330 ADH1_YEAST	ANELLINVK	L	507,303124	2	473,308209	1	y4
sp P00330 ADH1_YEAST	ANELLINVK	H	511,310223	2	707,490536	1	y6
sp P00330 ADH1_YEAST	ANELLINVK	H	511,310223	2	594,406472	1	y5
sp P00330 ADH1_YEAST	ANELLINVK	H	511,310223	2	481,322408	1	y4
sp P00330 ADH1_YEAST	VVGLSTLPEIYEK	L	724,405775	2	1079,561917	1	y9
sp P00330 ADH1_YEAST	VVGLSTLPEIYEK	L	724,405775	2	891,48221	1	y7
sp P00330 ADH1_YEAST	VVGLSTLPEIYEK	L	724,405775	2	778,398146	1	y6
sp P00330 ADH1_YEAST	VVGLSTLPEIYEK	H	728,412874	2	1087,576116	1	y9
sp P00330 ADH1_YEAST	VVGLSTLPEIYEK	H	728,412874	2	899,496409	1	y7
sp P00330 ADH1_YEAST	VVGLSTLPEIYEK	H	728,412874	2	786,412345	1	y6