

**S4 Table. A list of proteins identified by LC-MS/MS, in stage 3 of breast cancer tissue and their details as shown in PEAKS Software.**

Protein name	Protein ID	Accession	-10lgP	Cov. (%)	#Peptides	#Unique	PTM	Avg. Mass	Description
<b>Golgi resident protein GCP60</b>	23480	sp Q9H3P7 GCP60_HUMAN	178.62	12	5	5	Carbamido methylation	60593	Golgi resident protein GCP60 OS=Homo sapiens GN=ACBD3 PE=1 SV=4
<b>Eukaryotic peptide chain release factor subunit 1</b>	2730	sp P62495 ERF1_HUMAN	110.05	13	5	5	Carbamido methylation	49031	Eukaryotic peptide chain release factor subunit 1 OS=Homo sapiens GN=ETF1 PE=1 SV=3
<b>Nucleoside diphosphate kinase 3</b>	2753	sp Q13232 NDK3_HUMAN	60	16	2	2	Carbamido methylation; Oxidation (M)	19015	Nucleoside diphosphate kinase 3 OS=Homo sapiens GN=NME3 PE=1 SV=2
<b>Deoxynucleoside triphosphate triphosphohydrolase SAMHD1</b>	3436	sp Q9Y3Z3 SAMH1_HUMAN	111.21	21	10	10	Carbamido methylation	72201	Deoxynucleoside triphosphate triphosphohydrolase SAMHD1 OS=Homo sapiens GN=SAMHD1 PE=1 SV=2
<b>Protein SEC13 homolog</b>	3720	sp P55735 SEC13_HUMAN	156.3	23	5	5	Carbamido methylation	35541	Protein SEC13 homolog OS=Homo sapiens GN=SEC13 PE=1 SV=3
<b>Protein SEC13 homolog</b>	3721	tr A0A0C4DFR6 A0A0C4DFR6_HUMAN	43.91	16	3	3	Carbamido methylation	35857	Protein enabled homolog OS=Homo sapiens GN=ENAH PE=1 SV=2
<b>Protein enabled homolog</b>	22965	sp Q8N8S7 ENAH_HUMAN	94.18	10	5	5	Carbamido methylation	66510	Rho GTPase-activating protein 1 OS=Homo sapiens GN=ARHGAP1 PE=1 SV=1
<b>Rho GTPase-activating protein 1</b>	23329	sp Q07960 RHG01_HUMAN	124.29	15	7	7	Carbamido methylation; Oxidation (M)	50436	LEM domain-containing protein 2 OS=Homo sapiens GN=LEMD2 PE=1 SV=1
<b>LEM domain-containing protein 2</b>	23373	sp Q8NC56 LEM D2_HUMAN	109.47	13	5	5	Carbamido methylation	56975	TAR DNA-binding protein 43 (Fragment) OS=Homo sapiens GN=TARDBP PE=1 SV=1
<b>TAR DNA-binding protein 43 (Fragment)</b>	23455	tr A0A087WX29 A0A087WX29_HUMAN	82.04	18	4	4	Carbamido methylation	26743	V-type proton ATPase subunit E 1 OS=Homo sapiens GN=ATP6V1E1 PE=1 SV=1
<b>V-type proton ATPase subunit E 1</b>	23744	sp P36543 VATE1_HUMAN	49.52	14	3	3	Carbamido methylation; Oxidation (M)	26145	Prefoldin subunit 1 OS=Homo sapiens GN=PFDN1 PE=1 SV=1
<b>Prefoldin subunit 1</b>	23751	sp O60925 PFD1_HUMAN	64.03	24	3	3	Carbamido methylation; Oxidation (M)	14210	Coiled-coil domain-containing protein 58 (Fragment) OS=Homo sapiens GN=CCDC58 PE=1 SV=1
<b>Coiled-coil domain-containing protein 58 (Fragment)</b>	23932	tr H7C525 H7C525_HUMAN	87.57	37	4	4	Carbamido methylation	16385	DNA-dependent protein kinase catalytic subunit OS=Homo sapiens GN=PRKDC PE=1 SV=3
<b>Inhibitor of nuclear factor kappa-B kinase-interacting protein</b>	24189	sp Q70UQ0 IKIP_HUMAN	83.72	12	4	4	Carbamido methylation; Oxidation (M)	39309	Transmembrane glycoprotein NMB OS=Homo sapiens GN=GPNMB PE=1 SV=2
<b>DNA-dependent protein kinase</b>	24231	sp P78527 PRKDC_HUMAN	114.44	12	12	12	Carbamido methylation	469093	MOB kinase activator 1A OS=Homo sapiens

catalytic subunit								GN=MOB1A PE=1 SV=4
<b>Transmembrane glycoprotein NMB</b>	24286	sp Q14956 GPN MB_HUMAN	56.1	14	3	3	Carbamido methylation	63923 MOB kinase activator 1B OS=Homo sapiens GN=MOB1B PE=1 SV=3
<b>MOB kinase activator 1A</b>	24983	sp Q9H8S9 MOB 1A_HUMAN	73.49	18	8	3	Carbamido methylation	25080 Golgi resident protein GCP60 OS=Homo sapiens GN=ACBD3 PE=1 SV=4
<b>MOB kinase activator 1B</b>	24984	sp Q7L9L4 MOB 1B_HUMAN	73.49	19	2	2	Carbamido methylation;	25091 Eukaryotic peptide chain release factor subunit 1 OS=Homo sapiens GN=ETF1 PE=1 SV=3