

SUPPLEMENT

Mikurova A.V., Novikova S.E., Skvortsov V.S., Alekseychuk N.N., Rybina A.V., Miroshnichenko Yu.V., The sequence coverage in different methods of mass spectrometry data analysis obtained on model proteins, *Biomeditsinskaya khimiya*, 2017, vol: 63(5), 397-404. DOI: 10.18097/PBMC20176305397

Table 1. Compare coverage sequence with different settings of «MS/MS tolerance» and «peptide tolerance» (results, received with NOVOR).

		O00194	P00167	P22830	Q13485
Length (Uniprot)		218	134	423	552
Variant with «common parts»					
«MS/MS-tolerance», Da («peptide tolerance» 5 ppm)	0,5	99	44	103	60
	0,1	108	44	105	69
	0,02	128	50	114	107
«peptide tolerance», ppm («MS/MS-tolerance», 0,02 Da)	10	112	47	116	84
	5	128	50	114	107
	1	92	46	112	62
Predicted peptides					
«MS/MS-tolerance», Da («peptide tolerance» 5 ppm)	0,5	130	57	141	119
	0,1	128	58	146	97
	0,02	134	56	145	120
«peptide tolerance», ppm («MS/MS-tolerance», 0,02 Da)	10	131	56	148	112
	5	134	56	145	120
	1	137	56	150	119

Table 2. Compare coverage sequence with different settings of «MS/MS tolerance» and «peptide tolerance» (results, received with PEAKS).

		O00194	P00167	P22830	Q13485
Length (Uniprot)		218	134	423	552
Variant with «common parts»					
«MS/MS-tolerance», Da («peptide tolerance» 5 ppm)	0,5	99	37	121	62
	0,1	143	69	154	183
	0,02	174	86	126	123
«peptide tolerance», ppm («MS/MS-tolerance», 0,02 Da)	10	190	77	182	201
	5	174	86	126	123
	1	184	66	176	170
Predicted peptides					
«MS/MS-tolerance», Da («peptide tolerance» 5 ppm)	0,5	112	41	115	96
	0,1	164	73	170	222
	0,02	194	80	206	240
«peptide tolerance», ppm («MS/MS-tolerance», 0,02 Da)	10	179	83	210	258
	5	194	80	206	240
	1	178	82	189	233

Table 3. Compare coverage sequence with different settings of «MS/MS tolerance» and «peptide tolerance» (results, received with MASCOT).

		O00194	P00167	P22830	Q13485
Length (Uniprot)		218	134	423	552
Variant with «common parts»					
«MS/MS-tolerance», Da («peptide tolerance» 5 ppm)	0,5	298	100	185	246
	0,1	324	115	203	284
	0,02	159	116	256	508
«peptide tolerance», ppm («MS/MS-tolerance», 0,02 Da)	10	204	116	310	486
	5	159	116	256	508
	1	203	105	246	491
Predicted peptides					
«MS/MS-tolerance», Da («peptide tolerance» 5 ppm)	0,5	492	115	202	351
	0,1	538	130	214	410
	0,02	210	125	384	522
«peptide tolerance», ppm («MS/MS-tolerance», 0,02 Da)	10	216	130	347	525
	5	210	125	384	522
	1	207	123	324	518

Table 4. Compare coverage sequence with different settings of «MS/MS tolerance» and «peptide tolerance» (results, received with X!Tandem).

		O00194	P00167	P22830	Q13485
Length (Uniprot)		218	134	423	552
Variant with «common parts»					
«MS/MS-tolerance», Da («peptide tolerance» 5 ppm)	0,5	190	68	207	413
	0,1	196	86	199	436
	0,02	197	92	277	440
«peptide tolerance», ppm («MS/MS-tolerance», 0,02 Da)	10	197	92	286	310
	5	197	92	277	440
	1	196	92	289	396
Predicted peptides					
«MS/MS-tolerance», Da («peptide tolerance» 5 ppm)	0,5	197	86	308	506
	0,1	205	123	319	512
	0,02	207	123	319	524
«peptide tolerance», ppm («MS/MS-tolerance», 0,02 Da)	10	207	123	319	530
	5	207	123	319	524
	1	207	123	305	506

Table 5. List of proteins detected by search and *de novo* sequencing

Protein(s)	Description(s)	Organism	Gene name	Coverage, % «Determined enzyme» mode				Coverage, % «Undetermined enzyme» mode				
				Mascot	X!Tandem	Peaks	Novor	Mascot	X!Tandem	Peaks	Novor	PepNovo+
P00167	Cytochrome b5	<i>Homo sapiens</i>	CYB5A	64	92	34	22	93	92	77	37	37
P22830	Ferrochelatase, mitochondrial	<i>Homo sapiens</i>	FECH	73	73	19	18	92	73	30	27	15
O00194	Ras-related protein Rab-27B	<i>Homo sapiens</i>	RAB27B	87	96	70	39	96	95	80	59	30
Q13485	Mothers against decapentaplegic homolog 4	<i>Homo sapiens</i>	SMAD4	38	86	12	7	92	90	22	19	11
PODH99	Elongation factor 1-alpha 1	<i>Arabidopsis thaliana</i>	A1				3				3	
P02763	Alpha-1-acid glycoprotein 1	<i>Homo sapiens</i>	A1AG1					23	16			
P19652	Alpha-1-acid glycoprotein 2	<i>Homo sapiens</i>	A1AG2					19	13			
P04217	Alpha-1B-glycoprotein	<i>Homo sapiens</i>	A1BG					13	6			
P01023	Alpha-2-macroglobulin	<i>Homo sapiens</i>	A2MG					31	19			
P01011	Alpha-1-antichymotrypsin	<i>Homo sapiens</i>	AACT						4			
Q8GW96	AAA-ATPase At2g18193	<i>Arabidopsis thaliana</i>	AATP3		5							
Q9LK64	ABC transporter C family member 3	<i>Arabidopsis thaliana</i>	AB3C		2							
Q9STT6	ABC transporter A family member 6	<i>Arabidopsis thaliana</i>	AB6A						5			
O81108	Calcium-transporting ATPase 2, plasma membrane-type	<i>Arabidopsis thaliana</i>	ACA2						2			
P24182	Biotin carboxylase	<i>Escherichia coli</i>	ACCC	3	3			15	3			
O80963	Serine/threonine-protein kinase-like protein CCR2	<i>Arabidopsis thaliana</i>	ACCR2		2							
P0AFG8	Pyruvate dehydrogenase E1 component	<i>Escherichia coli</i>	ACEE	5	7			4				
Q9UGM1	Neuronal acetylcholine receptor subunit alpha-9	<i>Homo sapiens</i>	ACHA9						5			
Q07001	Acetylcholine receptor subunit delta	<i>Homo sapiens</i>	ACHD		3							
P0A6A8	Acyl carrier protein	<i>Escherichia coli</i>	acpP	10								
P0CJ46	Actin-1	<i>Arabidopsis thaliana</i>	ACT1		12				14			
P53494	Actin-4	<i>Arabidopsis thaliana</i>	ACT4		20				23			
P53492	Actin-7	<i>Arabidopsis thaliana</i>	ACT7						15			
P68133	Actin, alpha skeletal muscle	<i>Homo sapiens</i>	ACTA1	56	33			66	36		4	
P62736	Actin, aortic smooth muscle	<i>Homo sapiens</i>	ACTA2	49	45			69	52		4	
P60709	Actin, cytoplasmic 1	<i>Homo sapiens</i>	ACTB	26	34			44	35		4	
Q562R1	Beta-actin-like protein 2	<i>Homo sapiens</i>	ACTBL2								4	
P68032	Actin, alpha cardiac muscle 1	<i>Homo sapiens</i>	ACTC1	61				72			4	
P63261	Actin, cytoplasmic 2	<i>Homo sapiens</i>	ACTG1		34						4	
P63267	Actin, gamma-enteric smooth muscle	<i>Homo sapiens</i>	ACTG2								4	
P35609	Alpha-actinin-2	<i>Homo sapiens</i>	ACTN2		4			7	4			
Q9H2P0	Activity-dependent neuroprotector homeobox protein	<i>Homo sapiens</i>	ADNP		1							
P02765	Alpha-2-HS-glycoprotein	<i>Homo sapiens</i>	AHSG					25	16			
P33224	Putative acyl-CoA dehydrogenase AidB	<i>Escherichia coli</i>	aidB	4								
Q12802	A-kinase anchor protein 13	<i>Homo sapiens</i>	AKAP13					7				
P98204	Phospholipid-transporting ATPase 1	<i>Arabidopsis thaliana</i>	ALA1						1			
P02768	Serum albumin	<i>Homo sapiens</i>	ALBU	8	8			49	38	11		
P04075	Fructose-bisphosphate aldolase A	<i>Homo sapiens</i>	ALDOA		20				14			
P09972	Fructose-bisphosphate aldolase C	<i>Homo sapiens</i>	ALDOC		4							
Q96BT7	Alkylated DNA repair protein alkB homolog 8	<i>Homo sapiens</i>	ALKBH8	2								
Q6XPT5	Metacaspase-7	<i>Arabidopsis thaliana</i>	AMC7	15								
P23109	AMP deaminase 1	<i>Homo sapiens</i>	AMPD1	2								
Q6UB99	Ankyrin repeat domain-containing protein 11	<i>Homo sapiens</i>	ANR11		1							
P01008	Antithrombin-III	<i>Homo sapiens</i>	ANT3					18	7			
Q10567	AP-1 complex subunit beta-1	<i>Homo sapiens</i>	APIB1		3							
P08519	Apolipoprotein(a)	<i>Homo sapiens</i>	APOA					18	7			

P02647	Apolipoprotein A-I	<i>Homo sapiens</i>	APOA1					80	79			
P02652	Apolipoprotein A-II	<i>Homo sapiens</i>	APOA2					49	44			
P06727	Apolipoprotein A-IV	<i>Homo sapiens</i>	APOA4					33	24			
P04114	Apolipoprotein B-100	<i>Homo sapiens</i>	APOB					21	8			
P02654	Apolipoprotein C-I	<i>Homo sapiens</i>	APOC1					52	25			
P02656	Apolipoprotein C-III	<i>Homo sapiens</i>	APOC3					53	16			
P05090	Apolipoprotein D	<i>Homo sapiens</i>	APOD					10	7			
P02649	Apolipoprotein E	<i>Homo sapiens</i>	APOE					44	38			
P02749	Beta-2-glycoprotein 1	<i>Homo sapiens</i>	APOH					5				
Q14791	Apolipoprotein L1	<i>Homo sapiens</i>	APOL1					14	14			
P06960	Ornithine carbamoyltransferase subunit F	<i>Escherichia coli</i>	argF	12								
Q9NVT9	Armadillo repeat-containing protein 1	<i>Homo sapiens</i>	ARMC1						3			
P77398	Bifunctional polymyxin resistance protein ArnA	<i>Escherichia coli</i>	ARNA	52	50			61	49	2		3
P59998	Actin-related protein 2/3 complex subunit 4	<i>Homo sapiens</i>	ARPC4						11			
P22106	Asparagine synthetase B [glutamine-hydrolyzing]	<i>Escherichia coli</i>	ASNB		3				3			
Q9R4J4	Peptidyl-Asp metalloendopeptidase (Fragments)	<i>Pseudomonas fragi</i>	ASPN	6	55	22		64	49	24	9	
O64668	Presenilin-like protein At1g08700	<i>Arabidopsis thaliana</i>	At1g08700	18								
O04291	Homeobox-leucine zipper protein ATHB-14	<i>Arabidopsis thaliana</i>	ATHB-14	6								
P0ABB0	ATP synthase subunit alpha	<i>Escherichia coli</i>	ATPA	2				2				
P0ABB4	ATP synthase subunit beta	<i>Escherichia coli</i>	atpD	4								
Q8GXG6	Hydroxyproline O-galactosyltransferase GALT4	<i>Arabidopsis thaliana</i>	B3GTH						6			
Q9LUK7	Transcription factor bHLH28	<i>Arabidopsis thaliana</i>	BH028		1							
A8MY62	Putative beta-lactamase-like 1	<i>Homo sapiens</i>	BLML		10							
Q96Q07-3	Isoform 3 of BTB/POZ domain-containing protein 9	<i>Homo sapiens</i>	BTBD9	5								
P01024	Complement C3	<i>Homo sapiens</i>	C3					43	33			
P0C0L4	Complement C4-A	<i>Homo sapiens</i>	C4A					20	9			
P0C0L5	Complement C4-B	<i>Homo sapiens</i>	C4B					21				
Q9LHA1	Cytochrome P450 81D11	<i>Arabidopsis thaliana</i>	C8D11		2							
P22223	Cadherin-3	<i>Homo sapiens</i>	CADH3						2			
Q13555	Calcium/calmodulin-dependent protein kinase type II subunit gamma	<i>Homo sapiens</i>	CAMK2G	8								
P00864	Phosphoenolpyruvate carboxylase	<i>Escherichia coli</i>	CAPP		8				7			
Q8WXQ8	Carboxypeptidase A5	<i>Homo sapiens</i>	CBPA5						4			
Q02224	Centromere-associated protein E	<i>Homo sapiens</i>	CEN	1								
P00450	Ceruloplasmin	<i>Homo sapiens</i>	CERU					11	10			
P00751	Complement factor B	<i>Homo sapiens</i>	CFAB					18	3			
C5A1D5	60 kDa chaperonin	<i>Escherichia coli</i>	CH60		3							
Q13231	Chitotriosidase-1	<i>Homo sapiens</i>	CHIT1		5							
Q9ZUV9	Cation/H(+) antiporter 7	<i>Arabidopsis thaliana</i>	CHX7	5								
P30622	CAP-Gly domain-containing linker protein 1	<i>Homo sapiens</i>	CLIP1	3								
P0ABH9	ATP-dependent Clp protease ATP-binding subunit ClpA	<i>Escherichia coli</i>	CLPA					8	1			
P63284	Chaperone protein ClpB	<i>Escherichia coli</i>	clpB	3								
P42730	Chaperone protein ClpB1	<i>Arabidopsis thaliana</i>	CLPB1						3			
P10909	Clusterin	<i>Homo sapiens</i>	CLUS						9			
Q7Z7A1	Centriolin	<i>Homo sapiens</i>	CNTRL	0								
P01031	Complement C5	<i>Homo sapiens</i>	CO5					2	1			
P12110-3	Isoform 2C2A' of Collagen alpha-2(VI) chain	<i>Homo sapiens</i>	CO6A2		2							
Q5TAT6	Collagen alpha-1(XIII) chain	<i>Homo sapiens</i>	COL13A1						2			
Q7Z3J2	UPF0505 protein C16orf62	<i>Homo sapiens</i>	CP062		4							
Q8GUU3	Cleavage and polyadenylation specificity factor subunit 3-II	<i>Arabidopsis thaliana</i>	CPSF73-II	3								

P0ACJ8	cAMP-activated global transcriptional regulator CRP	<i>Escherichia coli</i>	CRP	56	46			56	46		
Q9LRL2	Putative cysteine-rich repeat secretory protein 25	<i>Arabidopsis thaliana</i>	CRRSP25	15							
Q9ZQB9	Probable xyloglucan glycosyltransferase 12	<i>Arabidopsis thaliana</i>	CSLC12					19			
Q9H1P6	Uncharacterized protein C20orf85	<i>Homo sapiens</i>	CT085		15						
Q6NSI4	Uncharacterized protein CXorf57	<i>Homo sapiens</i>	CXorf57	3							
Q9P0U4	CXXC1_HUMAN CXXC-type zinc finger protein 1	<i>Homo sapiens</i>	CXXC1						8		
P0ABJ9	Cytochrome bd-I ubiquinol oxidase subunit 1	<i>Escherichia coli</i>	CYDA	4	3			9	4		
P0ABJ1	Cytochrome bo(3) ubiquinol oxidase subunit 2	<i>Escherichia coli</i>	CYOA	12	4			12	4		
P0ABI8	Cytochrome bo(3) ubiquinol oxidase subunit 1	<i>Escherichia coli</i>	CYOB	2	2			6	1		
P33261	Cytochrome P450 2C19	<i>Homo sapiens</i>	CYP2C19					13			
P10632	Cytochrome P450 2C8	<i>Homo sapiens</i>	CYP2C8					13			
P11712	Cytochrome P450 2C9	<i>Homo sapiens</i>	CYP2C9	26	12			20	2		
O48845	Cytochrome b5 isoform B	<i>Arabidopsis thaliana</i>	CYTB5-B								10
P81605	Dermcidin	<i>Homo sapiens</i>	DCD						38		
Q16531	DNA damage-binding protein 1	<i>Homo sapiens</i>	DDB1						1		
P60981	Destrin	<i>Homo sapiens</i>	DEST		15				15		
Q9FNQ1	DEXH-box ATP-dependent RNA helicase DEXH14	<i>Arabidopsis thaliana</i>	DEXHE						0		
O95886	Disks large-associated protein 3	<i>Homo sapiens</i>	DLGP3						1		
B11RF9	Chaperone protein DnaJ	<i>Escherichia coli</i>	DNAJ	5				14			
P0A6Y8	Chaperone protein DnaK	<i>Escherichia coli</i>	DNAK	65	61			71	55		2
Q8LF21	Dynammin-related protein 1C	<i>Arabidopsis thaliana</i>	DRPIC		2						
Q14204	Cytoplasmic dynein 1 heavy chain 1	<i>Homo sapiens</i>	DYHC1		0						
Q05VTE0	Putative elongation factor 1-alpha-like 3	<i>Homo sapiens</i>	EEF1A1P5	11			3	11			3
Q05639	Elongation factor 1-alpha 2	<i>Homo sapiens</i>	EEF1A2				3	20			3
Q7L9B9	Endonuclease/exonuclease/phosphatase family domain-containing protein 1	<i>Homo sapiens</i>	EEPD1						2		
P68104	Elongation factor 1-alpha 1	<i>Homo sapiens</i>	EF1A1		9		3		9		3
Q84WM9	Elongation factor 1-beta 1	<i>Arabidopsis thaliana</i>	EF1B1		4						
P17813	Endoglin	<i>Homo sapiens</i>	ENG	9							
P06733	Alpha-enolase	<i>Homo sapiens</i>	ENO1	7	9			41	13		5
P09104	Gamma-enolase	<i>Homo sapiens</i>	ENO2								4
P13929	Beta-enolase	<i>Homo sapiens</i>	ENO3								4
P54756	Ephrin type-A receptor 5	<i>Homo sapiens</i>	EPHA5						1		
P0CB39	Phosphoethanolamine transferase EptC	<i>Escherichia coli</i>	EPTC	14	5			7	3		
P60508	Syncytin-2	<i>Homo sapiens</i>	ERVFRD-1					7			
P0A9W3	Energy-dependent translational throttle protein EttA	<i>Escherichia coli</i>	ETTA	2	8			5	2		
Q9NV70	Exocyst complex component 1	<i>Homo sapiens</i>	EXOC1	7							
P02671	Fibrinogen alpha chain	<i>Homo sapiens</i>	FGA					33	39		
P02679	Fibrinogen gamma chain	<i>Homo sapiens</i>	FGG					32	32		
P02675	Fibrinogen beta chain	<i>Homo sapiens</i>	FIBB					38	32		
P02751	Fibronectin	<i>Homo sapiens</i>	FINC						2		
P00363	Fumarate reductase flavoprotein subunit	<i>Escherichia coli</i>	frdA	7	5						
P0A8Q3	Fumarate reductase subunit D	<i>Escherichia coli</i>	frdD	7							
B1J086	S-formylglutathione hydrolase FrmB	<i>Escherichia coli</i>	frmB	28							
P0AAI3	ATP-dependent zinc metalloprotease FtsH	<i>Escherichia coli</i>	FTSH	4	2			6	2		
P0AC30	Cell division protein FtsX	<i>Escherichia coli</i>	ftsX	3							
P0A9A9	Ferric uptake regulation protein	<i>Escherichia coli</i>	FUR	70	88			70	70		
P0A6M8	Elongation factor G	<i>Escherichia coli</i>	FUSA	6	4			6	4		
P0AC53	Glucose-6-phosphate 1-dehydrogenase	<i>Escherichia coli</i>	G6PD	4	4			4			
P0AEP1	Galactose-proton symporter	<i>Escherichia coli</i>	GALP	2	2			14	2		
Q5E924	Glyceraldehyde-3-phosphate dehydrogenase GAPCP2, chloroplastic	<i>Arabidopsis thaliana</i>	GAPCP2						3		

P04406	Glyceraldehyde-3-phosphate dehydrogenase	<i>Homo sapiens</i>	GAPDH	7	8			20	9		
P69813	PTS system galactitol-specific EIIA component	<i>Escherichia coli</i>	GATA	39				39			
P0A9S3	Galactitol-1-phosphate 5-dehydrogenase	<i>Escherichia coli</i>	gatD	3							
Q0TFZ6	D-tagatose-1,6-bisphosphate aldolase subunit GatY	<i>Escherichia coli</i>	GATY					30			
POC8J8	D-tagatose-1,6-bisphosphate aldolase subunit GatZ	<i>Escherichia coli</i>	GATZ	21	34			25	34		
Q93YV0	(E,E)-geranylinalool synthase	<i>Arabidopsis thaliana</i>	GES						1		
P30047	GTP cyclohydrolase 1 feedback regulatory protein	<i>Homo sapiens</i>	GFRP		43						
P0A9S5	Glycerol dehydrogenase	<i>Escherichia coli</i>	GLDA	29	42			45	25		
P0A6U8	Glycogen synthase	<i>Escherichia coli</i>	GLGA	11	4				2		
P10070	Zinc finger protein GLI2	<i>Homo sapiens</i>	GLI2						1		
P17169	Glutamine--fructose-6-phosphate aminotransferase [isomerizing]	<i>Escherichia coli</i>	GLMS	73	73	4	3	75	73		4
B11X65	Glutamate--tRNA ligase	<i>Escherichia coli</i>	GLTX					10			
Q3T8J9	GON-4-like protein	<i>Homo sapiens</i>	GON4L	1							
P68066	Autonomous glycy radical cofactor	<i>Escherichia coli</i>	GRCA	75	44			42	35		
P0A6F5	60 kDa chaperonin	<i>Escherichia coli</i>	groL	5							
Q9FF12	Flavin-containing monooxygenase FMO GS-OX-like 9	<i>Arabidopsis thaliana</i>	GSXL9						7		
Q9LK27	Transcription factor GTE8	<i>Arabidopsis thaliana</i>	GTE8		4						
Q96GX5	Serine/threonine-protein kinase greatwall	<i>Homo sapiens</i>	GWL		4						
P0AES6	DNA gyrase subunit B	<i>Escherichia coli</i>	gyrB	3							
P04908	Histone H2A type 1-B/E	<i>Homo sapiens</i>	H2A1B		22				22		
Q16836	Hydroxyacyl-coenzyme A dehydrogenase, mitochondrial	<i>Homo sapiens</i>	HADH	6							
P0ACB7	Protein HemY	<i>Escherichia coli</i>	HEMY	7	7			10			
Q15034	Probable E3 ubiquitin-protein ligase HERC3	<i>Homo sapiens</i>	HERC3		2						
O14964	Hepatocyte growth factor-regulated tyrosine kinase substrate	<i>Homo sapiens</i>	HGS						2		
P0ACE7	Purine nucleoside phosphoramidase	<i>Escherichia coli</i>	HINT	10	11			10	11		
Q0TEX1	Histidine--tRNA ligase	<i>Escherichia coli</i>	hisS	3							
P0C0S8	Histone H2A type 1	<i>Homo sapiens</i>	HIST1H2AG	29				29			
Q9S7J8	Copper-transporting ATPase RAN1	<i>Arabidopsis thaliana</i>	HMA7		2						
P22626	Heterogeneous nuclear ribonucleoproteins A2/B1	<i>Homo sapiens</i>	HNRNPA2B1					16	11		
P00738	Haptoglobin	<i>Homo sapiens</i>	HPT						14		
P02790	Hemopexin	<i>Homo sapiens</i>	HPX					23	20		
P61604	10 kDa heat shock protein, mitochondrial	<i>Homo sapiens</i>	HS1	14	14			14	14		13
P0A6H5	ATP-dependent protease ATPase subunit HslU	<i>Escherichia coli</i>	HSLU	11	9				7		
F4HQD4	Heat shock 70 kDa protein 15	<i>Arabidopsis thaliana</i>	HSP7P						1		
S4R3N1	Protein HSPE1-MOB4	<i>Homo sapiens</i>	HSPE1-MOB4								5
Q7Z6Z7	E3 ubiquitin-protein ligase HUWE1	<i>Homo sapiens</i>	HUWE1	0					1		
A0A0C4DH34	Immunoglobulin heavy variable 4-28	<i>Homo sapiens</i>	HV428					8	19		
P0ACE0	Hydrogenase-2 large chain	<i>Escherichia coli</i>	hybC	4							
P69741	Hydrogenase-2 small chain	<i>Escherichia coli</i>	hybO	3							
P0AAN3	Hydrogenase isoenzymes nickel incorporation protein HypB	<i>Escherichia coli</i>	HYPB	3	8						
Q02363	DNA-binding protein inhibitor ID-2	<i>Homo sapiens</i>	ID2		7						
P01876	Ig alpha-1 chain C region	<i>Homo sapiens</i>	IGHA1					24	24		
P01857	Ig gamma-1 chain C region	<i>Homo sapiens</i>	IGHG1					49	29		
P01859	Ig gamma-2 chain C region	<i>Homo sapiens</i>	IGHG2					31	14		
P01871	Ig mu chain C region	<i>Homo sapiens</i>	IGHM					29	22		
A0A0C4DH38	Immunoglobulin heavy variable 5-51	<i>Homo sapiens</i>	IGHV5-51					36	10		
P01591	Immunoglobulin J chain	<i>Homo sapiens</i>	IGJ					12	12		
P01834	Ig kappa chain C region	<i>Homo sapiens</i>	IGKC	32	32			70	65		

B9A064	Immunoglobulin lambda-like polypeptide 5	<i>Homo sapiens</i>	IGLL5					23				
P0A6Y1	Integration host factor subunit beta	<i>Escherichia coli</i>	IHFB					13	13			
Q9BZV3	Interphotoreceptor matrix proteoglycan 2	<i>Homo sapiens</i>	IMPG2	5								
Q9NVR2	Integrator complex subunit 10	<i>Homo sapiens</i>	INT10			1						
P46940	Ras GTPase-activating-like protein IQGAP1	<i>Homo sapiens</i>	IQGAP1					6	0			
P19827	Inter-alpha-trypsin inhibitor heavy chain H1	<i>Homo sapiens</i>	ITIH1					6	4			
P19823	Inter-alpha-trypsin inhibitor heavy chain H2	<i>Homo sapiens</i>	ITIH2					11	6			
Q14624	Inter-alpha-trypsin inhibitor heavy chain H4	<i>Homo sapiens</i>	ITIH4					12	12			
P13645	Keratin, type I cytoskeletal 10	<i>Homo sapiens</i>	K1C10	13	8			28	17			
P04259	Keratin, type II cytoskeletal 6B	<i>Homo sapiens</i>	K2C6B						3			
A0AUZ9-3	Isoform 3 of KAT8 regulatory NSL complex subunit 1-like protein	<i>Homo sapiens</i>	KAL1L						2			
P13029	Catalase-peroxidase	<i>Escherichia coli</i>	KATG	3	7			3	3			
Q8L7R2	Homoserine kinase	<i>Arabidopsis thaliana</i>	KHSE						3			
Q4FZB7	Histone-lysine N-methyltransferase KMT5B	<i>Homo sapiens</i>	KMT5B			1						
P01042-3	Isoform 3 of Kininogen-1	<i>Homo sapiens</i>	KNG1					22	7			
P0AD61	Pyruvate kinase I	<i>Escherichia coli</i>	KPYK1			3						
P04264	Keratin, type II cytoskeletal 1	<i>Homo sapiens</i>	KRT1	27	30			56	36			
P02533	Keratin, type I cytoskeletal 14	<i>Homo sapiens</i>	KRT14	9								
Q7Z3Y7	Keratin, type I cytoskeletal 28	<i>Homo sapiens</i>	KRT28	3								
P35527	Keratin, type I cytoskeletal 9	<i>Homo sapiens</i>	KRT9	19	18			39	26			
Q9LMH0	Protein KTI12 homolog	<i>Arabidopsis thaliana</i>	KTI12			11						
P01619	Immunoglobulin kappa variable 3-20	<i>Homo sapiens</i>	KV320					37	23			
P0CG04	Ig lambda-1 chain C regions	<i>Homo sapiens</i>	LAC1						41			
P0CG05	Ig lambda-2 chain C regions	<i>Homo sapiens</i>	LAC2					67	57			
Q6ZV70	LanC-like protein 3	<i>Homo sapiens</i>	LANC3			5						
P0ACV4	Lipopolysaccharide assembly protein A	<i>Escherichia coli</i>	LAPA	13					13			
P18428	Lipopolysaccharide-binding protein	<i>Homo sapiens</i>	LBP						7			
P00338	L-lactate dehydrogenase A chain	<i>Homo sapiens</i>	LDHA	6	6				6			
P0AB38	Penicillin-binding protein activator LpoB	<i>Escherichia coli</i>	LPOB	6	6			29	6			
Q9Y2L9	Leucine-rich repeat and calponin homology domain-containing protein 1	<i>Homo sapiens</i>	LRCH1			2						
F4HQ22	LEAF RUST 10 DISEASE-RESISTANCE LOCUS RECEPTOR-LIKE PROTEIN KINASE-like 2.4	<i>Arabidopsis thaliana</i>	LRL24			1						
Q12912	Lymphoid-restricted membrane protein	<i>Homo sapiens</i>	LRMP			1						
P01701	Immunoglobulin lambda variable 1-51	<i>Homo sapiens</i>	LV151						21			
Q7M135	Lysyl endopeptidase	<i>Lysobacter</i> enzymogenes	LYSC	42	28			65	48			
P61626	Lysozyme C	<i>Homo sapiens</i>	LYZ	13	13			13	13			
O43318-3	Isoform 1C of Mitogen-activated protein kinase kinase kinase 7	<i>Homo sapiens</i>	MAP3K7	6								
P56784	Maturase K	<i>Arabidopsis thaliana</i>	matK	1								
Q8H1B3	Probable mediator of RNA polymerase II transcription subunit 37b	<i>Arabidopsis thaliana</i>	MD37B						5			
P0AEY8	Multidrug transporter MdfA	<i>Escherichia coli</i>	MDFA						3			
F4K460	Mediator of RNA polymerase II transcription subunit 17	<i>Arabidopsis thaliana</i>	MED17			2						
Q13503	Mediator of RNA polymerase II transcription subunit 21	<i>Homo sapiens</i>	MED21					6				
P13009	Methionine synthase	<i>Escherichia coli</i>	metH	1								
P0A817	S-adenosylmethionine synthase	<i>Escherichia coli</i>	metK	4								
Q5XKP0	MIC complex subunit MIC13	<i>Homo sapiens</i>	MIC13	19	19							
Q8VZG8	MDIS1-interacting receptor like kinase 2	<i>Arabidopsis thaliana</i>	MIK2	3								
P51512	Matrix metalloproteinase-16	<i>Homo sapiens</i>	MMP16						1			
Q99550	M-phase phosphoprotein 9	<i>Homo sapiens</i>	MPP9						2			

P0A9X4	Rod shape-determining protein MreB	<i>Escherichia coli</i>	MREB	11	4		4	4		
Q8NDA8	Maestro heat-like repeat-containing protein family member 1	<i>Homo sapiens</i>	MROH1	1						
Q68CQ1	Maestro heat-like repeat-containing protein family member 7	<i>Homo sapiens</i>	MROH7	2						
P0A749	UDP-N-acetylglucosamine 1-carboxyvinyltransferase	<i>Escherichia coli</i>	MURA	8	6		14			
P14900	UDP-N-acetylmuramoylalanine--D-glutamate ligase	<i>Escherichia coli</i>	MURD					3		
Q9ZTC3	Transcription factor MYB90	<i>Arabidopsis thaliana</i>	MYB90		11					
P12882	Myosin-1	<i>Homo sapiens</i>	MYH1				10			
P11055	Myosin-3	<i>Homo sapiens</i>	MYH3		1		8	1		
Q9Y623	MYH4_HUMAN Myosin-4	<i>Homo sapiens</i>	MYH4	2			19			
P12883	Myosin-7	<i>Homo sapiens</i>	MYH7				12			
P05976	Myosin light chain 1/3, skeletal muscle isoform	<i>Homo sapiens</i>	MYL1	14						
Q96A32	Myosin regulatory light chain 2, skeletal muscle isoform	<i>Homo sapiens</i>	MYLPF	16	11		11	11		
Q9Y4I1	Unconventional myosin-Va	<i>Homo sapiens</i>	MYO5A					2		
P15173	Myogenin	<i>Homo sapiens</i>	MYOG					16		
P75949	Beta-hexosaminidase	<i>Escherichia coli</i>	NAGZ	3	3					
Q3E7D0	Nucleobase-ascorbate transporter 12	<i>Arabidopsis thaliana</i>	NAT12	9						
Q95803-3	Isoform 3 of Bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 3	<i>Homo sapiens</i>	NDST3					7		
P31600	Bacteriophage adsorption protein A	<i>Escherichia coli</i>	NFRA		5					
P0A6Z6	Nickel-responsive regulator	<i>Escherichia coli</i>	NIKR	65	56		74	69		
P93002	Regulatory protein NPR1	<i>Arabidopsis thaliana</i>	NPR1				10			
P00452	Ribonucleoside-diphosphate reductase 1 subunit alpha	<i>Escherichia coli</i>	NRDA				9	1		
P28903	Anaerobic ribonucleoside-triphosphate reductase	<i>Escherichia coli</i>	NRDD	2	2					
F4I366	DNA-directed RNA polymerase I subunit 2	<i>Arabidopsis thaliana</i>	NRPA2		1					
Q96CM4	Nucleoredoxin-like protein 1	<i>Homo sapiens</i>	NXNL1	3	3					
Q9LVH5	Outer envelope protein 64, chloroplastic	<i>Arabidopsis thaliana</i>	OEP64	5						
Q9HC10	Otoferlin	<i>Homo sapiens</i>	OTOF				7			
Q95206	Protocadherin-8	<i>Homo sapiens</i>	PCDH8	1						
Q4V389	Pentatricopeptide repeat-containing protein At1g22830	<i>Arabidopsis thaliana</i>	PCMP-E24	7						
Q5VY43	Platelet endothelial aggregation receptor 1	<i>Homo sapiens</i>	PEAR1	1						
Q65090	Ribosomal RNA small subunit methyltransferase, chloroplastic	<i>Arabidopsis thaliana</i>	PFC1	14						
P09373	Formate acetyltransferase 1	<i>Escherichia coli</i>	PFLB	22	11		23	7		
P07737	Profilin-1	<i>Homo sapiens</i>	PFN1	10	10		10	10		10
Q96GW7	Brevican core protein	<i>Homo sapiens</i>	PGCB					5		
Q99623	Prohibitin-2	<i>Homo sapiens</i>	PHB2				6	6		
P0A9K7	Phosphate-specific transport system accessory protein PhoU	<i>Escherichia coli</i>	PHOU				31			
P14618	Pyruvate kinase PKM	<i>Homo sapiens</i>	PKM				22	16		
Q15111	Inactive phospholipase C-like protein 1	<i>Homo sapiens</i>	PLCL1	3						
P00747	Plasminogen	<i>Homo sapiens</i>	PLG				15	1		
Q43867	Pectinesterase 1	<i>Arabidopsis thaliana</i>	PME1					1		
Q9SGH4	Photosynthetic NDH subunit of luminal location 3, chloroplastic	<i>Arabidopsis thaliana</i>	PNSL3		10					
Q6S8J3	POTE ankyrin domain family member E	<i>Homo sapiens</i>	POTEE							1
A5A3E0	POTE ankyrin domain family member F	<i>Homo sapiens</i>	POTEF	6	6			7		1
Q9BYX7	Putative beta-actin-like protein 3	<i>Homo sapiens</i>	POTEKP							4
P28069	Pituitary-specific positive transcription factor 1	<i>Homo sapiens</i>	POU1F1	3						
Q9SAJ5	Pentatricopeptide repeat-containing protein At1g79540	<i>Arabidopsis thaliana</i>	PP133		6					
Q49711	Pentatricopeptide repeat-containing protein At4g21880, mitochondrial	<i>Arabidopsis thaliana</i>	PP335		1					
Q9FGL1	Putative pentatricopeptide repeat-containing protein At5g47460	<i>Arabidopsis thaliana</i>	PP423					5		
Q0TAA4	Phosphoenolpyruvate carboxylase	<i>Escherichia coli</i>	PPC	18			19			
Q5VV67	Peroxisome proliferator-activated receptor gamma coactivator-related protein 1	<i>Homo sapiens</i>	PPRC1		1					

P10163	Basic salivary proline-rich protein 4	<i>Homo sapiens</i>	PRB4					11	4			
P48634	Protein PRRC2A	<i>Homo sapiens</i>	PRC2A		1							
P0C0L7	Proline/betaine transporter	<i>Escherichia coli</i>	proP	4								
Q6MZQ0	Proline-rich protein 5-like	<i>Homo sapiens</i>	PRR5L						2			
Q9Y6M0	Testisin	<i>Homo sapiens</i>	PRSS21					3				
P25787	Proteasome subunit alpha type-2	<i>Homo sapiens</i>	PSMA2	9	9			11	9			
Q9SUV2	Probable sugar phosphate/phosphate translocator At4g32390	<i>Arabidopsis thaliana</i>	PT432						12			
P69828	PTS system galactitol-specific EIIA component	<i>Escherichia coli</i>	PTKA		57				57			
Q9LSE8	Protein NRT1/ PTR FAMILY 4.2	<i>Arabidopsis thaliana</i>	PTR35		2							
Q00577	Transcriptional activator protein Pur-alpha	<i>Homo sapiens</i>	PURA		7							
Q6ZY51	Phosphoglucan, water dikinase, chloroplastic	<i>Arabidopsis thaliana</i>	PWD						1			
Q6IQ22	Ras-related protein Rab-12	<i>Homo sapiens</i>	RAB12		5							
Q92928	Putative Ras-related protein Rab-1C	<i>Homo sapiens</i>	RAB1C						20			
Q9H082	Ras-related protein Rab-33B	<i>Homo sapiens</i>	RAB33B	8								
Q5JT25	Ras-related protein Rab-41	<i>Homo sapiens</i>	RAB41					6	10			
P61018	Ras-related protein Rab-4B	<i>Homo sapiens</i>	RAB4B	10								
Q9LNK1	Ras-related protein RABA3	<i>Arabidopsis thaliana</i>	RABA3		5							
Q9CB01	Ras-related protein RABF1	<i>Arabidopsis thaliana</i>	RABF1	15								
Q5HYI8	Rab-like protein 3	<i>Homo sapiens</i>	RABL3	5	5				5			
P51159	Ras-related protein Rab-27A	<i>Homo sapiens</i>	RB27A	16	32	10	10	40	29	15		
P0AG30	Transcription termination factor Rho	<i>Escherichia coli</i>	RHO	26	18			38	18			
P0A7J0	3,4-dihydroxy-2-butanone 4-phosphate synthase	<i>Escherichia coli</i>	RIBB	6	6			6				
Q9ZT07	G-type lectin S-receptor-like serine/threonine-protein kinase RKS1	<i>Arabidopsis thaliana</i>	RKS1		3					2		
P0A7J7	50S ribosomal protein L11	<i>Escherichia coli</i>	RL11						8			
P60422	50S ribosomal protein L2	<i>Escherichia coli</i>	RL2		23				23			
P61175	50S ribosomal protein L22	<i>Escherichia coli</i>	RL22		9							
P62399	50S ribosomal protein L5	<i>Escherichia coli</i>	RL5		14				11			
P42596	Ribosomal RNA large subunit methyltransferase G	<i>Escherichia coli</i>	RLMG		2							
Q01974	Tyrosine-protein kinase transmembrane receptor ROR2	<i>Homo sapiens</i>	ROR2		2							
Q0TCE4	50S ribosomal protein L2	<i>Escherichia coli</i>	RPLB	33				33				
Q0TCE1	50S ribosomal protein L3	<i>Escherichia coli</i>	rplC	5								
Q0TCF3	50S ribosomal protein L5	<i>Escherichia coli</i>	RPLE	14				11				
P0AG55	50S ribosomal protein L6	<i>Escherichia coli</i>	RPLF	19	19			19	19			
P0AA10	50S ribosomal protein L13	<i>Escherichia coli</i>	RPLM	21	9			9	9			
P0ADY3	50S ribosomal protein L14	<i>Escherichia coli</i>	rplN	28	44							
P0ADY7	50S ribosomal protein L16	<i>Escherichia coli</i>	rplP	10	10							
P0C0I8	50S ribosomal protein L18	<i>Escherichia coli</i>	rplR	26	8							
P0A7K6	50S ribosomal protein L19	<i>Escherichia coli</i>	rplS	12								
P0AG48	50S ribosomal protein L21	<i>Escherichia coli</i>	RPLU	21	21			10				
Q0TCE6	50S ribosomal protein L22	<i>Escherichia coli</i>	RPLV	20				20				
P0A7M2	50S ribosomal protein L28	<i>Escherichia coli</i>	rpmB	20	20							
P0A7Q1	50S ribosomal protein L35	<i>Escherichia coli</i>	rpmI	18								
P0A8T7	DNA-directed RNA polymerase subunit beta'	<i>Escherichia coli</i>	RPOC	4	5			8	3			
Q9LX88	40S ribosomal protein S15a-4	<i>Arabidopsis thaliana</i>	RPS15AD					15				
P63220	40S ribosomal protein S21	<i>Homo sapiens</i>	RPS21				17	21	22			
P62266	40S ribosomal protein S23	<i>Homo sapiens</i>	RPS23						19			
P61247	40S ribosomal protein S3a	<i>Homo sapiens</i>	RPS3A	6	6			21	7			
P46782	40S ribosomal protein S5	<i>Homo sapiens</i>	RPS5	10								
P0A7V0	30S ribosomal protein S2	<i>Escherichia coli</i>	RPSB	63	43			32	37			
P0A7V3	30S ribosomal protein S3	<i>Escherichia coli</i>	RPSC	27	14			30	14			
P0A7V8	30S ribosomal protein S4	<i>Escherichia coli</i>	RPSD	8	8			6				

P0A7W1	30S ribosomal protein S5	<i>Escherichia coli</i>	RPSE	65	43		73	43			
P0A4D0	30S ribosomal protein S6	<i>Escherichia coli</i>	RPSF	22			8				
P0A7S3	30S ribosomal protein S12	<i>Escherichia coli</i>	RPSL	16	17		16	17			
P0ADZ4	30S ribosomal protein S15	<i>Escherichia coli</i>	RPSO	18	18		18	18			
P0A7T7	30S ribosomal protein S18	<i>Escherichia coli</i>	rpsR		16						
P0A7S9	30S ribosomal protein S13	<i>Escherichia coli</i>	RS13		10						
P62244	40S ribosomal protein S15a	<i>Homo sapiens</i>	RS15A					15			
P02358	30S ribosomal protein S6	<i>Escherichia coli</i>	RS6		38						
P0AFX4	Regulator of sigma D	<i>Escherichia coli</i>	RSD	13			23				
P0AA43	Ribosomal small subunit pseudouridine synthase A	<i>Escherichia coli</i>	RSUA	34	34		34	34			8
P35542	Serum amyloid A-4 protein	<i>Homo sapiens</i>	SAA4				44	8			
Q9UJQ4	Sal-like protein 4	<i>Homo sapiens</i>	SALL4		4						
P0AG90	Protein translocase subunit SecD	<i>Escherichia coli</i>	secD	1							
Q92854	Semaphorin-4D	<i>Homo sapiens</i>	SEM4D					1			
P01009	Alpha-1-antitrypsin	<i>Homo sapiens</i>	SERPINA1				48	24			
Q9ZNX9	RNA polymerase sigma factor sigE, chloroplast/mtochondrial	<i>Arabidopsis thaliana</i>	SIGE					2			
P0A9K9	FKBP-type peptidyl-prolyl cis-trans isomerase SlyD	<i>Escherichia coli</i>	SLYD	77	77	17	77	71	24	17	
Q5PRF9	Protein Smaug homolog 2	<i>Homo sapiens</i>	SMAG2					2			
O14512	Suppressor of cytokine signaling 7	<i>Homo sapiens</i>	SOCS7				2				
Q9T014	Protein SPA1-RELATED 2	<i>Arabidopsis thaliana</i>	SPA2				3				
Q56A73	Spindlin-4	<i>Homo sapiens</i>	SPIN4					10			
Q9BXG8	Spermatogenic leucine zipper protein 1	<i>Homo sapiens</i>	SPZ1					3			
P11831	Serum response factor	<i>Homo sapiens</i>	SRF				5	2			
P56580	PTS system glucitol/sorbitol-specific EIIB component	<i>Escherichia coli</i>	srIE	3							
Q6GI34	Glutamyl endopeptidase	<i>Staphylococcus aureus</i> (strain MRSA252)	SSPA	31	42		71	67			
P80644	FMN reductase	<i>Escherichia coli</i>	ssuE					8			
P78524-2	Isoform 2 of Suppression of tumorigenicity 5 protein	<i>Homo sapiens</i>	ST5		4			6			
Q8WXE9	Stonin-2	<i>Homo sapiens</i>	STON2		1						
Q7RTU9	Stereocilin	<i>Homo sapiens</i>	STRC					1			
P04805	Glutamate--tRNA ligase	<i>Escherichia coli</i>	SYE					2			
O15119	T-box transcription factor TBX3	<i>Homo sapiens</i>	TBX3		2						
Q15582	Transforming growth factor-beta-induced protein ig-h3	<i>Homo sapiens</i>	TGFB1				4	3			
Q3E8E5	Putative myrosinase 3	<i>Arabidopsis thaliana</i>	TGG3	10							
P0A8M3	Threonine--tRNA ligase	<i>Escherichia coli</i>	THRS	10	5		10	7			
Q9SK50	Protein TIC 55, chloroplastic	<i>Arabidopsis thaliana</i>	TIC55		3						
Q9FGT8	Temperature-induced lipocalin-1	<i>Arabidopsis thaliana</i>	TIL		6						
Q8WZ42	Titin	<i>Homo sapiens</i>	TITIN		0						
P0ABU9	Protein TolQ	<i>Escherichia coli</i>	tolQ	7	7						
P09493	Tropomyosin alpha-1 chain	<i>Homo sapiens</i>	TPM1				19				
P06753	Tropomyosin alpha-3 chain	<i>Homo sapiens</i>	TPM3	4			12	4			
P02787	Serotransferrin	<i>Homo sapiens</i>	TRFE				33	23	3		
Q7Z4N2	Transient receptor potential cation channel subfamily M member 1	<i>Homo sapiens</i>	TRPM1	2							
P00761	Trypsin	<i>Sus scrofa</i>	TRYP	12	16		40	17			
Q3SY00	Testis-specific protein 10-interacting protein	<i>Homo sapiens</i>	TSGA10IP	6							
Q8NA56	Tetratricopeptide repeat protein 29	<i>Homo sapiens</i>	TTC29		2						
P0CE47	Elongation factor Tu 1	<i>Escherichia coli</i>	TUFA	85	80			80	5	9	3
P32132	GTP-binding protein TypA/BipA	<i>Escherichia coli</i>	TYPA	19	20		23	17			
Q9SS80	UPF0503 protein At3g09070, chloroplastic	<i>Arabidopsis thaliana</i>	U503A					3			
Q8NBM4-5	Isoform 5 of Ubiquitin-associated domain-containing protein 2	<i>Homo sapiens</i>	UBAC2	19							

Q9C8X7	Probable ubiquitin-conjugating enzyme E2 31	<i>Arabidopsis thaliana</i>	UBC31		9								
P61088	Ubiquitin-conjugating enzyme E2 N	<i>Homo sapiens</i>	UBE2N		7								
Q5T4S7	E3 ubiquitin-protein ligase UBR4	<i>Homo sapiens</i>	UBR4					2					
Q2PS26	Ubiquitin-like-specific protease 1D	<i>Arabidopsis thaliana</i>	ULP1D		4								
Q9LT38	Serine/threonine-protein kinase UNCL	<i>Arabidopsis thaliana</i>	UNCL		3								
B5YUX3	Urease subunit alpha	<i>Escherichia coli</i>	ureC	1									
Q15853	Upstream stimulatory factor 2	<i>Homo sapiens</i>	USF2	6									
Q9UPU5	Ubiquitin carboxyl-terminal hydrolase 24	<i>Homo sapiens</i>	USP24	0									
P08670	Vimentin	<i>Homo sapiens</i>	VIM					7	4				
Q5THJ4	Vacuolar protein sorting-associated protein 13D	<i>Homo sapiens</i>	VP13D						0				
Q96RL7	Vacuolar protein sorting-associated protein 13A	<i>Homo sapiens</i>	VPS13A	0									
P04004	Vitronectin	<i>Homo sapiens</i>	VTNC					18	10				
Q96KV7	WD repeat-containing protein 90	<i>Homo sapiens</i>	WDR90	1									
P0A8P8	Tyrosine recombinase XerD	<i>Escherichia coli</i>	xerD	13	8								
Q9C516	Extra-large guanine nucleotide-binding protein 3	<i>Arabidopsis thaliana</i>	XLG3		2								
P0A8E1	UPF0227 protein YcfP	<i>Escherichia coli</i>	ycfP	11									
P77804	Protein YdgA	<i>Escherichia coli</i>	YDGA						3				
P76403	Uncharacterized protease YegQ	<i>Escherichia coli</i>	YEGQ		3								
P37014	Uncharacterized protein YfaD	<i>Escherichia coli</i>	YFAD						5				
P0ADW3	Inner membrane protein YhcB	<i>Escherichia coli</i>	YHCB	7					7				
P25714	Membrane protein insertase YidC	<i>Escherichia coli</i>	YIDC	8	6			19	7				
P64581	Uncharacterized protein YqjD	<i>Escherichia coli</i>	YQJD		32								
P64585	Inner membrane protein YqjE	<i>Escherichia coli</i>	YQJE	9				25	9				
P64588	Transcriptional regulator YqjI	<i>Escherichia coli</i>	YQJI	68	64	6		68	61	6			
Q9ZU46	Receptor protein kinase-like protein ZAR1	<i>Arabidopsis thaliana</i>	ZAR1	3	1								
O15062	Zinc finger and BTB domain-containing protein 5	<i>Homo sapiens</i>	ZBTB5	5									
Q9NQZ6	Zinc finger C4H2 domain-containing protein	<i>Homo sapiens</i>	ZC4H2						3				
Q9ULC8	Probable palmitoyltransferase ZDHHC8	<i>Homo sapiens</i>	ZDHC8						2				
P77173	Cell division protein ZipA	<i>Escherichia coli</i>	ZIPA	9	10								
Q5MCW4	Zinc finger protein 569	<i>Homo sapiens</i>	ZNF569	4									
Q92610	Zinc finger protein 592	<i>Homo sapiens</i>	ZNF592	2									
P36508	Zinc finger protein 76	<i>Homo sapiens</i>	ZNF76		2								