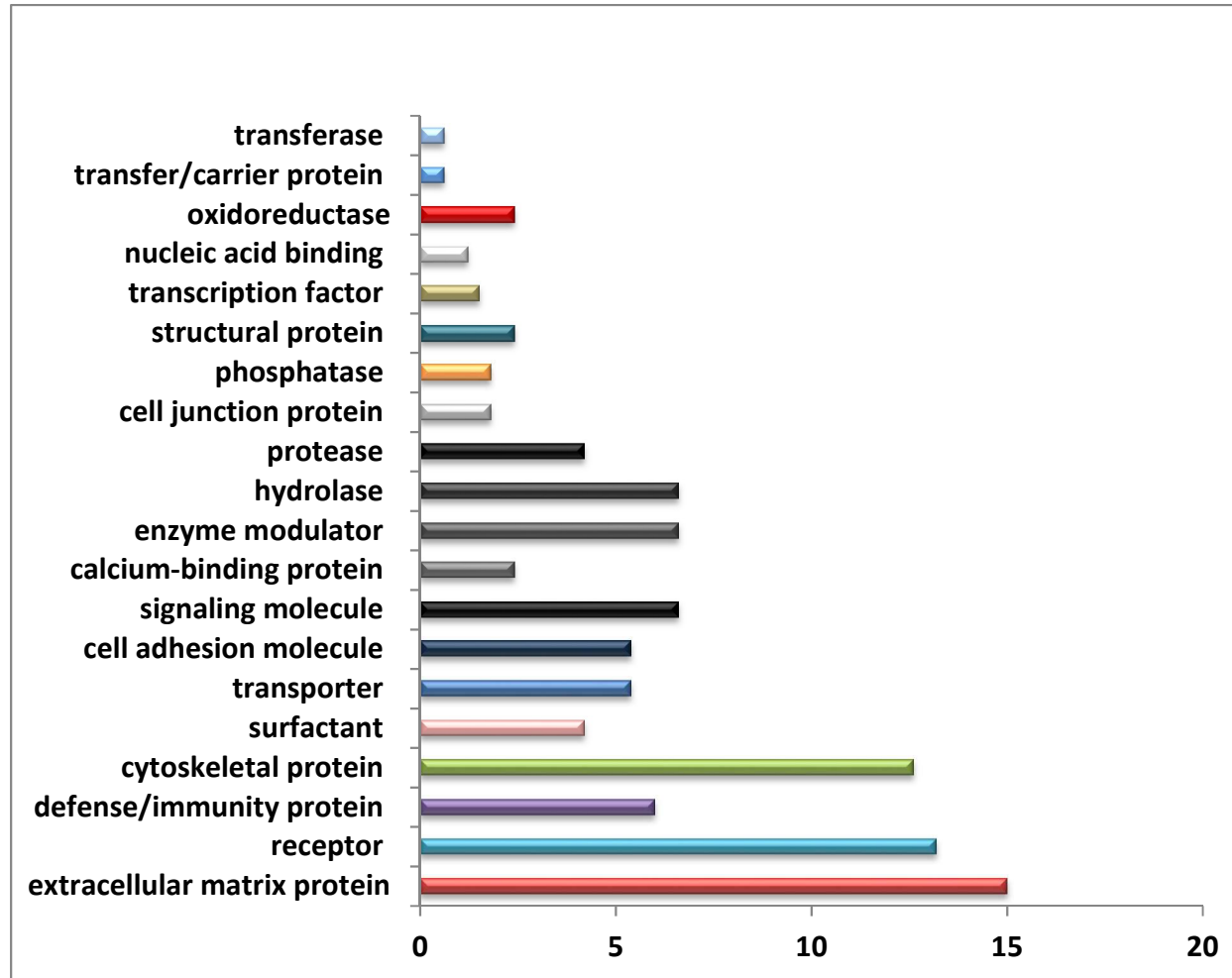
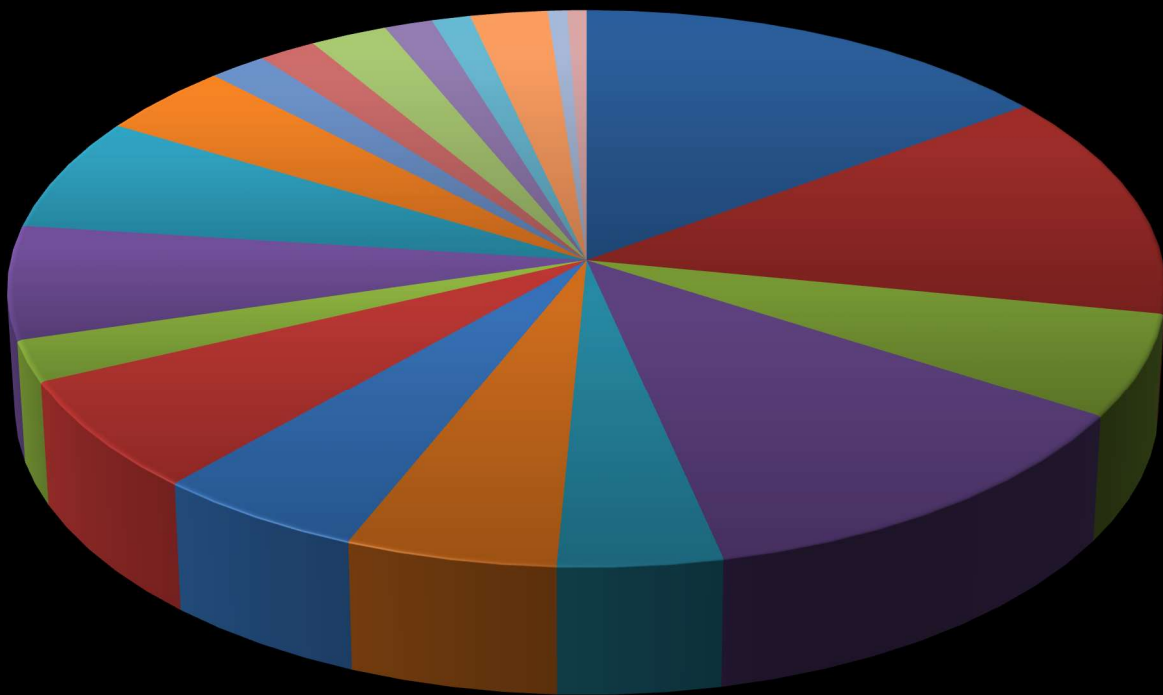


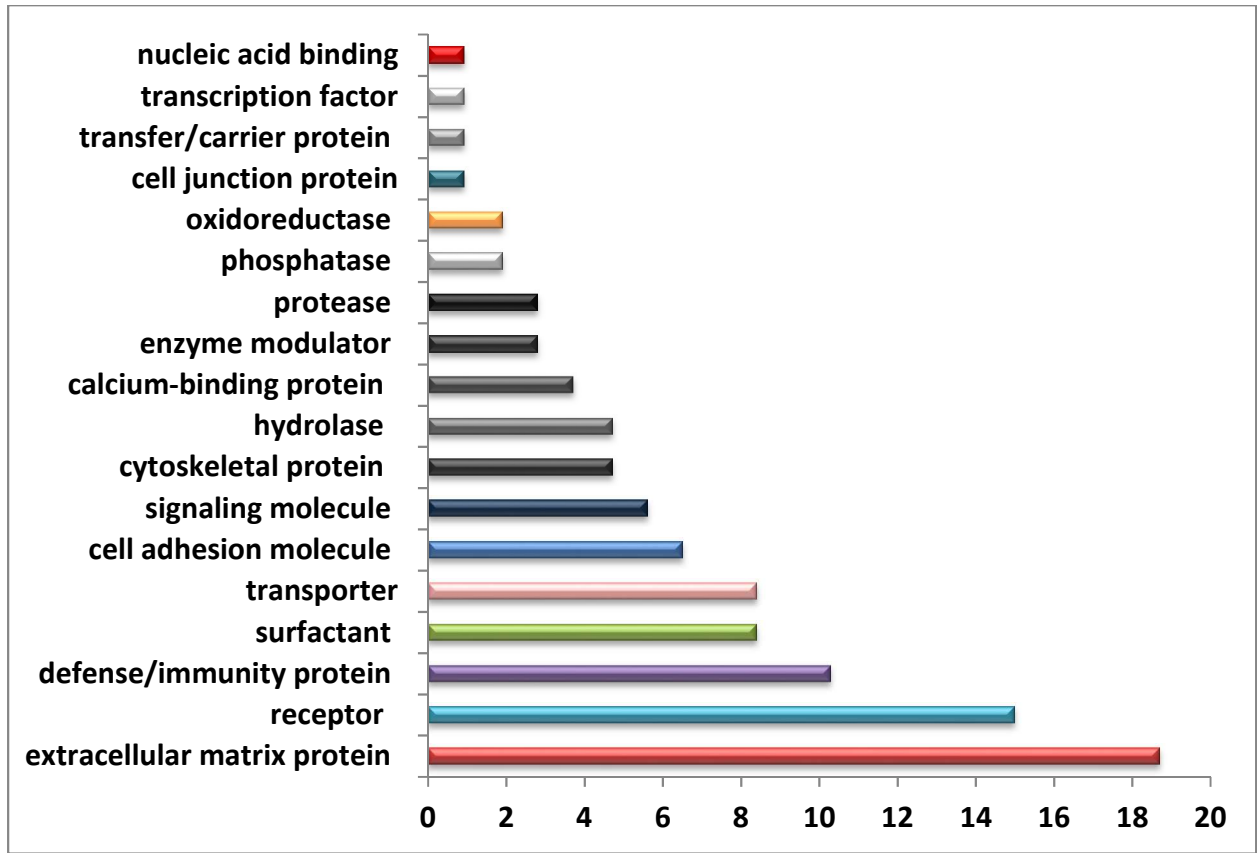
### SDS-Urea Soluble ECM proteins

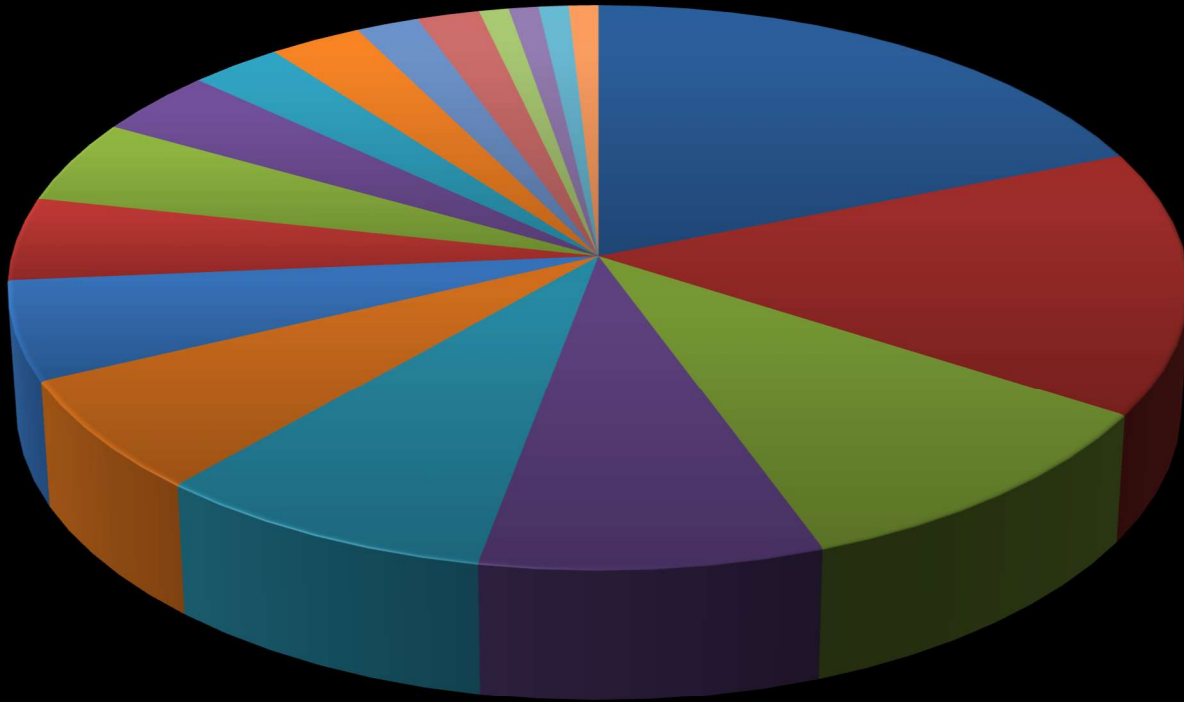




- extracellular matrix protein
- receptor
- defense/immunity protein
- cytoskeletal protein
- surfactant
- transporter
- cell adhesion molecule
- signaling molecule
- calcium-binding protein
- enzyme modulator
- hydrolase
- protease
- cell junction protein
- phosphatase
- structural protein
- transcription factor
- nucleic acid binding
- oxidoreductase
- transfer/carrier protein
- transferase

**SDS-Urea In-Soluble ECM proteins**





- extracellular matrix protein
- receptor
- defense/immunity protein
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- cell adhesion molecule
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- cell junction protein
- transfer/carrier protein
- transcription factor
- nucleic acid binding

**Fig 1S. Gene Ontology based on Panther protein category of the ECM proteins secreted by the human TM cells, identified by the LC-MS-MS analysis. Data are presented in both histogram format and Venn diagram format for the proteins identified in the ECM protein fraction (SDS-Urea soluble and SDS-Urea insoluble) based on mass spectrometry.**

**Table 1S: Proteins identified in the SDS-Urea soluble ECM protein fraction of the human TM cells by LC-MS-MS analysis.**

<b>UniProtKB Accession Number</b>	<b>ECM proteins</b>	<b>Mol Weight</b>	<b>Peptide Count</b>
H0Y5A9	Basement membrane-specific heparan sulfate proteoglycan core protein	469 kDa	49
H0Y7Z1	Fibronectin	263 kDa	41
P21333	Filamin-A	281 kDa	24
P39060	Collagen alpha-1(XVIII) chain	178 kDa	19
P08670	Vimentin	54 kDa	16
P02545	Prelamin-A/C	74 kDa	16
Q96RW7	Hemicentin-1	613 kDa	15
P12111	Collagen alpha-3(VI) chain	344 kDa	15
P39060	Collagen alpha-1(XVIII) chain	178 kDa	15
Q9Y6C2	EMILIN-1	107 kDa	13
P63261	Actin, cytoplasmic 2	42 kDa	13
P08493	Matrix Gla protein	12 kDa	12
P35579	Myosin-9	227 kDa	11
P62736	Actin, aortic smooth muscle	42 kDa	11
P35555	Fibrillin-1	312 kDa	11
P10909	Clusterin	52 kDa	11
Q92743	Serine protease HTRA1	51 kDa	10
Q8CG19	Latent-transforming growth factor beta-binding protein 2	195 kDa	9
Q05682	Caldesmon	93 kDa	7
P48307	Tissue factor pathway inhibitor 2	27 kDa	5
Q99988	Growth/differentiation factor 15	34 kDa	5
Q12805	EGF-containing fibulin-like extracellular matrix protein 1	55 kDa	5
P14543	Nidogen-1	136 kDa	5

P05556	Integrin beta-1	88 kDa	5
P60709	Actin, cytoplasmic 1	42 kDa	5
P21980	Protein-glutamine gamma-glutamyltransferase 2	77 kDa	4
O15230	Laminin subunit alpha-5	400 kDa	4
Q06830	Peroxiredoxin-1	22 kDa	3
P39060	Collagen alpha-2(IV) chain	168 kDa	3
Q08397	Lysyl oxidase homolog 1	63 kDa	3
P11047	Laminin subunit gamma-1	178 kDa	3
Q9GZM7	Tubulointerstitial nephritis antigen-like	52 kDa	3
P07355	Annexin A2	39 kDa	3
Q07065	Cytoskeleton-associated protein 4	66 kDa	3
P12110	Collagen alpha-2(VI) chain	109 kDa	3
P23246	Splicing factor, proline- and glutamine-rich	76 kDa	3
Q14112	Nidogen-2	151 kDa	3
P35580	Myosin-10	229 kDa	3
Q9UH18	A disintegrin and metalloproteinase with thrombospondin motifs 1	105kDa	3
Q6ZMP0	Thrombospondin type-1 domain-containing protein 4	112 kDa	3
O00622	Protein CYR61	42 kDa	3
P06756	Integrin alpha-V	116 kDa	3
Q5VTE0	Elongation factor 1-alpha 1	50 kDa	2
P08123	Collagen alpha-2(I) chain	129 kDa	2
P23142	Fibulin-1	77 kDa	2
P02765	Alpha-2-HS-glycoprotein	39 kDa	2
Q71U36	Tubulin alpha-1A chain	50 kDa	2
P14618	Pyruvate kinase PKM	58 kDa	2
P27816	Microtubule-associated protein 4	121 kDa	2
P20700	Lamin-B1	66 kDa	2

P02452	Collagen alpha-1(I) chain	139 kDa	2
Q9UH18	A disintegrin and metalloproteinase with thrombospondin motifs 1	105 kDa	2
O00159	Unconventional myosin-Ic	122 kDa	2
P24821	Tenascin	241 kDa	2
Q14254	Flotillin-2	47 kDa	2
P12236	ADP/ATP translocase 3	33 kDa	2
Q66K79	Carboxypeptidase Z	74 kDa	2
O43854	EGF-like repeat and discoidin I-like domain-containing protein 3	54 kDa	2
P24593	Insulin-like growth factor-binding protein 5	31 kDa	2
Q15436	Protein transport protein Sec23A	86 kDa	2
P51911	Calponin-1	33 kDa	2
Q15417	Calponin-3	36 kDa	2
P04083	Annexin A1	39 kDa	2
O00468	Agrin	217 kDa	2
Q12802	A-kinase anchor protein 13	308 kDa	2
P02461	Collagen alpha-1(III) chain	139 kDa	2
Q96S97	Myeloid-associated differentiation marker	35 kDa	2
O94804	Serine/threonine-protein kinase 10	112 kDa	2
Q9H772	Gremlin-2	19 kDa	2
P41221	Protein Wnt-5a	42 kDa	2
P07437	Tubulin beta chain	50 kDa	2
Q53TN4	Cytochrome b reductase 1	32 kDa	2
P48741	Putative heat shock 70 kDa protein 7	40 kDa	2
P12109	Collagen alpha-1(VI) chain	109 kDa	2
Q15149	Plectin	532 kDa	2
Q8N6G6	ADAMTS-like protein 1	193 kDa	2
Q8WX93	Palladin	151 kDa	2



Q8WUJ3	Cell migration-inducing and hyaluronan-binding protein	153 kDa	2
P15502	Elastin	68 kDa	2
P27105	Erythrocyte band 7 integral membrane protein	32 kDa	2
Q16181	Septin-7	51 kDa	2
P07942	Laminin subunit beta-1	198 kDa	2
P21741	Midkine	16 kDa	2
P06396	Gelsolin	86 kDa	2
Q09666	Neuroblast differentiation-associated protein AHNAK	629 kDa	2
Q0ZGT2	Nexilin	81 kDa	2
P06733	Alpha-enolase	47 kDa	2
P21810	Biglycan	42 kDa	2
O75610	Left-right determination factor 1	41 kDa	2
Q99623	Prohibitin-2	33 kDa	2
Q14011	Cold-inducible RNA-binding protein	19 kDa	2
P52926	High mobility group protein HMGI-C	12 kDa	2
Q562R1	Beta-actin-like protein 2	42 kDa	2
Q12931	Heat shock protein 75 kDa, mitochondrial	80 kDa	2
P29401	Transketolase	68 kDa	2
Q15582	Transforming growth factor-beta-induced protein ig-h3	75 kDa	2
Q9Y490	Talin-1	270 kDa	2

**Table 2S: Proteins identified in the SDS-Urea Insoluble ECM protein fraction of the human TM cells by LC-MS-MS analysis.**

<b>UniProtKB Accession Number</b>	<b>ECM proteins</b>	<b>Mol WT</b>	<b>Peptide count</b>
H0Y7Z1	Fibronectin	263 kDa	106
Q5SZJ2	Basement membrane-specific heparan sulfate proteoglycan core protein	469 kDa	56
P35555	Fibrillin-1	312 kDa	28
Q9Y6C2	EMILIN-1	107 kDa	26
Q96RW7	Hemicentin-1	613 kDa	13
P08572	Collagen alpha-2(IV) chain	168 kDa	13
Q8CG19	Latent-transforming growth factor beta-binding protein 1	187 kDa	10
O15230	Laminin subunit alpha-5	400 kDa	9
P02452	Collagen alpha-1(I) chain	139 kDa	8
P62736	Actin, aortic smooth muscle	42 kDa	8
P35556-2	Fibrillin-2	315 kDa	7
Q8N6G6	ADAMTS-like protein 1	193 kDa	7
Q6ZMP0	Thrombospondin type-1 domain-containing protein 4	112 kDa	6
P02462	Collagen alpha-1(IV) chain	161 kDa	6
Q05682	Caldesmon	93 kDa	6
Q8WX93	Palladin	151 kDa	6
Q8WUJ3	Cell migration-inducing and hyaluronan-binding protein	153 kDa	6
Q14767	Latent-transforming growth factor beta-binding protein 2	195 kDa	5
Q06830	Peroxiredoxin-1	22 kDa	5
P11047	Laminin subunit gamma-1	178 kDa	5
P21980	Protein-glutamine gamma-glutamyltransferase 2	77 kDa	4
P08123	Collagen alpha-2(I) chain	129 kDa	4
P39060	Collagen alpha-1(XVIII) chain	178 kDa	3

P01966	Hemoglobin subunit alpha	15 kDa	3
P39060	Collagen alpha-1(XVIII) chain	178 kDa	3
Q96HC4	PDZ and LIM domain protein 5	64 kDa	3
P24821	Tenascin	241 kDa	3
P15502	Elastin	68 kDa	3
P05997	Collagen alpha-2(V) chain	145 kDa	3
P27658	Collagen alpha-1(VIII) chain	73 kDa	2
P63261	Actin, cytoplasmic 2	42 kDa	2
P02461	Collagen alpha-1(III) chain	139 kDa	2
P07942	Laminin subunit beta-1	198 kDa	2
O00159	Unconventional myosin-Ic	122 kDa	2
P02769	Collagen alpha-2(VIII) chain	67 kDa	2
Q08397	Lysyl oxidase homolog 1	63 kDa	2