

Supplementary Table

Table S1: Tryptic peptides of PDI-family members carrying CxxC redox-active motifs. Accession numbers correspond to UniprotKB (<http://www.uniprot.org/>) entries. Tryptic peptides were predicted from known UniprotKB sequences using ExPASy PeptideMass (http://web.expasy.org/peptide_mass/) tool. Out of 25 CxxC containing peptides from 13 PDI-family members, only two peptides exhibit identical masses (underlined).

Gene Name/accession number	Selected Aliases	CxxC Redox Peptide	AA Coverage	Iodoacetate (¹² C) Modified
DNAJC10/ Q8IXB1	MTHr, ERdj5	EFDAAVNSGELWVNFYSPGCSHCHDLAPTWR NHWVIDFYAPWCGPCQNFAPFELLAR HNEVWMVDFYSPWCHPCQVLMPEWK EPWLVDFFAPWCPPCR	138-169 689-715 575-599 469-484	3771.6267 3339.5026 3277.4038 2078.9138
ERP44/ Q9BS26	KIAA0573, PDIA10	EITSLDTENIDEILNADVA LVNFYADWCR	30-59	3514.6318
P4HB/ P07237	PDI, PROHB, PO4HB, P4Hb	YLLVEFYAPWCGHCK NVFVEFYAPWCGHCK	43-57 387-401	1944.8658 1915.8141
PDIA2/ Q13087	PDA2, PDip	EHPALLVEFYAPWCGHCQALAPEYSK FYAPWCTHCK	58-83 413-422	3075.4015 1371.5496
PDIA3/ P30101	P58, ERp61, ERp57, ERp60,	ISDTGSAGLMLVEFFAPWCGHCK DVLIEFYAPWCGHCK	39-61 396-410	2585.1509 <u>1896.8295</u>
PDIA4/ P13667	ERP70, ERp72	ENFDEVVNDADIILVEFYAP WCGHCK DTVLLEFYAPWCGHCK DVLIEFYAPWCGHCK	185-210 80-95 545-559	3142.3808 1997.8771 <u>1896.8295</u>
PDIA5/ Q14554	PDIr, FLJ30401	EKPLLIMFYAPWCSMCK EHSSVLMFHAPWCGHCK HTLVMFYAPWCPHCK	169-186 292-309 416-430	2305.0411 2183.9459 1948.8542
PDIA6/ Q15084	P5, ERp5	EVIQSDSLWLVEFYAPWCGHCQR NVLDSQVWVVEFYAPWCGHCK	38-60 173-194	2882.2912 2744.1465
TMX1/ Q9H3N1	TMX, PDIA11	ELLEGDWMIEFYAPWCPACQNLQPEWESFAEWG- EDLEVNIK	41-82	5102.2520
TMX3/ Q96JJ7	FLJ20793, PDIA13	NDDIWLVDYAPWCGHCK	40-57	2297.9630
TMX4/Q9H1E5	DJ971N18.2, PDIA14	FYAPWCPCQQTSEWEAFK	59-79	2610.0587
TXNDC5/ Q86UY0	FLJ90810, EndoPDI, Hcc-2, ERp46, PDIA15	FYAPWCGHCK FFAPWCGHCK CGHCQR	273-282 140-149 17-22	1327.5234 1311.5285 819.2872
TXNDC12/ O95881	ERp18, ERP19, AGR1, PDIA16	SWCGACK	64-70	870.3120