

**Supplemental table S2. Tryptophan-containing peptides identified by mass spectrometry.**

Sequence	Protein accession	protein description	Trp Mascot Score	1-L-MT Mascot-Score
<b>Glioblastoma-cells</b>				
LISWYDNEFGYSNR	P04406	Glyceraldehyde-3-phosphate dehydrogenase OS= <i>Homo sapiens</i>	91	n.i.
VVLAYEPVWAIGTGK	P60174	Triosephosphate isomerase OS= <i>Homo sapiens</i>	84	n.i.
TVIIQSWGSPK	P10809	60 kDa heat shock protein, mitochondrial OS= <i>Homo sapiens</i>	74	n.i.
VGWEQLLTTIAR	P12814	Alpha-actinin-1 OS= <i>Homo sapiens</i>	74	n.i.
DSPSVWAAVPGK	P07737	Profilin-1 OS= <i>Homo sapiens</i>	67	68
AWGPGLEGGVVGK	P21333	Filamin-A OS= <i>Homo sapiens</i>	64	66
FFPLESWQIGK	P30046	D-dopachrome decarboxylase OS= <i>Homo sapiens</i>	60	n.i.
VADIGLAAWGR	P23526	Adenosylhomocysteinase OS= <i>Homo sapiens</i>	54	n.i.
SADTLWDIQK	P07195	L-lactate dehydrogenase B chain OS= <i>Homo sapiens</i>	54	54
<b>HeLa Cells</b>				
LISWYDNEFGYSNR	P04406	Glyceraldehyde-3-phosphate dehydrogenase OS= <i>Homo sapiens</i> GN	95	91
VVLAYEPVWAIGTGK	P60174	Triosephosphate isomerase OS= <i>Homo sapiens</i>	84	80
DSPSVWAAVPGK	P07737	Profilin-1 OS= <i>Homo sapiens</i>	49	71
SADTLWDIQK	P07195	L-lactate dehydrogenase B chain OS= <i>Homo sapiens</i>	n.i.	58
FNVWDTAGQEK	P62826	GTP-binding nuclear protein Ran OS= <i>Homo sapiens</i>	n.i.	57
FFVGGNWK	P60174	Triosephosphate isomerase OS= <i>Homo sapiens</i>	n.i.	47
MPILGLGTWK	P15121	Aldose reductase OS= <i>Homo sapiens</i>	50	n.i.
SADTLWDIQK	P00338	L-lactate dehydrogenase A chain OS= <i>Homo sapiens</i>	49	n.i.
DDGSAVIWVTFK	Q14019	Coactosin-like protein OS= <i>Homo sapiens</i>	70	n.i.
SIQLDGLVWGASK	P29692	Elongation factor 1-delta OS= <i>Homo sapiens</i>	67	n.i.
ALPFWNEEIVPQIK	P15259	Phosphoglycerate mutase 2 OS= <i>Homo sapiens</i>	53	n.i.
NSSYFVEWIPNNVK	P07437	Tubulin beta chain OS= <i>Homo sapiens</i>	52	n.i.

WGDAGAEYVVESTGVFTTMEK	P04406	Glyceraldehyde-3-phosphate dehydrogenase OS= <i>Homo sapiens</i>	59	n.i.
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**Protein extracts from human cells were analysed by LC-MS.** Mascot-Scores for the identified tryptophan-containing peptides are given for cells grown in the presence of L-Tryptophan (Trp) and cells grown in the presence of 1-L-MT. n.i.: not identified. All searches were carried out with methylation of tryptophan residues as variable modifications. No peptide with tryptophan methylation was identified in any sample.