

MATRIX SCIENCE MASCOT Search Results

Protein View: VIME_HUMAN

Vimentin OS=Homo sapiens GN=VIM PE=1 SV=4

Database: SwissProt
Score: 88
Expect: 3.1e-05
Monoisotopic mass (M_r): 53676
Calculated pI: 5.06
Taxonomy: Homo sapiens

Sequence similarity is available as [an NCBI BLAST search of VIME_HUMAN against nr.](#)

Search parameters

Enzyme: Trypsin: cuts C-term side of KR unless next residue is P.
Fixed modifications: Carbamidomethyl (C)
Variable modifications: Oxidation (M)
Mass values searched: 12
Mass values matched: 8

Protein sequence coverage: 22%

Matched peptides shown in **bold red**.

1 MSTRSVSSSS YRRMFGGPGT ASRPSSRSY VTTSTRTYSL GSALRPSTSR
51 **SLYASSPGGV YATR**SSAVRL RSSVPGVRL QDSVDFSLAD AINTEFKNTR
101 TNEKVELQEL NDRFANYIDK VRFLEQQNKI **LLAELEQLKG** QGKSRLGDLY
151 **EEEMRELRRQ** VDQLTNDKAR VEVERDNLAE DIMRLREKLQ EEMLQREEAE
201 NTLQSFRQDV DNASLARLDL ERKVESLQEE IAFLKKLHEE EIQLQAAQIQ
251 EQHVQIDVDV SKPDLTAALR DVRQQYESVA AKNLQEAEEW YKSKFADLSE
301 AANRRNDALR QAK**QESTEYR** RQVQSLTCEV DALKGTNESL ERQMR**EMEEN**
351 **FAVEAANYQD TIGRLQDEIQ NMKEEMAR**HL REYQDLLNVK MALDIEIATY
401 RKLLEGEESR **ISLPLPNFSS LNL**RETNLDS LPLVDTHSKR TLLIKTVETR
451 **DGQVINETSQ HHDDLE**

Unformatted sequence string: **466 residues** (for pasting into other applications).

Sort by ☒ residue number ☐ increasing mass ☐ decreasing mass
Show ☒ matched peptides only ☐ predicted peptides also

Start - End	Observed	Mr (expt)	Mr (calc)	Delta M	Peptide
51 - 64	1428.7500	1427.7427	1427.7045	0.0382 0	R.SLYASSPGGVYATR.S
130 - 139	1169.7000	1168.6927	1168.7067	-0.0140 0	K.ILLAELEQLK.G
146 - 155	1254.5600	1253.5527	1253.5598	-0.0070 0	R.LGDLYEEEMR.E
314 - 321	1068.5000	1067.4927	1067.4996	-0.0068 1	K.QESTEYRR.Q
346 - 364	2186.9400	2185.9327	2185.9586	-0.0258 0	R.EMEENFAVEAANYQDTIGR.L
365 - 378	1734.8800	1733.8727	1733.8076	0.0651 1	R.LQDEIQNMKEEMAR.H
411 - 424	1570.9000	1569.8927	1569.8878	0.0049 0	R.ISLPLPNFSSLNL.R
451 - 466	1836.8000	1835.7927	1835.7922	0.0005 0	R.DGQVINETSQHHDDLE.-

No match to: 644.2000, 666.1300, 861.0400, 1959.2800