

Protein View: LOX5_MOUSE

Polyunsaturated fatty acid 5-lipoxygenase OS=Mus musculus OX=10090 GN=Alox5 PE=1 SV=3

Database: Uniprot
Score: 81
Expect: 0.00049
Monoisotopic mass (M_r): 78602
Calculated pI: 5.78
Taxonomy: Mus musculus

Sequence similarity is available as [an NCBI BLAST search of LOX5_MOUSE against nr.](#)

Search parameters

MS data file: D23.mgf
Enzyme: Trypsin/P: cuts C-term side of KR.
Fixed modifications: Carbamidomethyl (C)
Variable modifications: Oxidation (M)
Mass values searched: 117
Mass values matched: 21

Protein sequence coverage: 35%

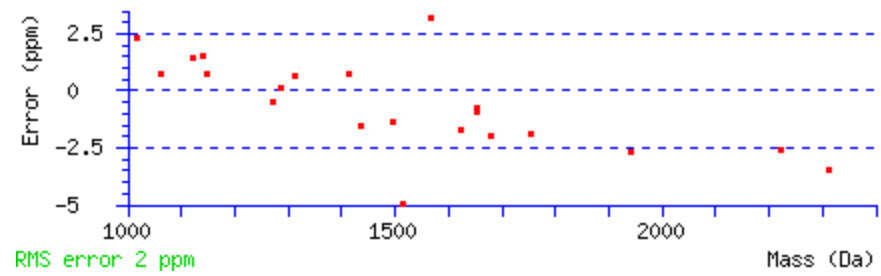
Matched peptides shown in **bold red**.

1	MPSYTVTVAT	GSQWFAGTDD	YIYLSLIGSA	GCSEKHLLEDK	AFYNDFERGA
51	VDSYDVTVDE	ELGEIYLVKI	EKR KYWLHDD	WYLKYITLKT	PHGDYIEFPC
101	YRWITGEGEI	VLRDGRAKLA	RDDQIHILKQ	HRRKELEARQ	KQYRWMEWNP
151	GFPLSIDAKC	HKDLPRDIQF	DSEK GVDFVL	NYSKAMENLF	INRFMHMFQS
201	SWHDFADFEK	IFVKISNTIS	ERVKNHWQED	LMFGYQFLNG	CNPVLIKRCT
251	ALPPK LPVTT	EMVECSLERQ	LSLEQEVQEG	NIFIVDYELL	DGIDANKTDP
301	CTHQFLAAPI	CLLYKNLANK	IVPIAIQLNQ	TPGESNPIFL	PTDSKYDWLL
351	AKIWVRSSDF	HVHQITITHLL	R THLVSEVFG	IAMYRQLPAV	HPLFKLLVAH
401	VRFTIAINTK	AR EQLICEYG	LFDKANATGG	GGHVQMVQRA	VQDLTYSSLC
451	FPEAIKARGM	DSTEDIPFYF	YRDDGLLVWE	AIQSFTMEVV	SIYYENDQVV
501	EEDQELQDFV	K DVYVYGMRG	KKASGFPKSI	KSREKLSEYL	TVVIFTASAQ
551	HAAVNFGQYD	WCSWIPNAPP	TMRAPPPTAK	GVVTIEQIVD	TLPDRGRSCW
601	HLGAVWALSQ	FQENELFLGM	YPPEHFIEKP	VKEAMIRFRK	NLEAIVSVIA

Unformatted sequence string: **674 residues** (for pasting into other applications).Sort by residue number increasing mass decreasing massShow matched peptides only predicted peptides also

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	M	Peptide
41 - 48	1061.4694	1060.4621	1060.4614	0.71	0	K.AFYNDFER.G
49 - 69	2314.1257	2313.1185	2313.1264	-3.42	0	R.GAVDSYDVTVDEELGEIYLVK.I
74 - 84	1566.7790	1565.7717	1565.7667	3.22	1	R.KYWLHDDWYLK.Y
75 - 84	1438.6768	1437.6695	1437.6717	-1.53	0	K.YWLHDDWYLK.Y
90 - 102	1654.7303	1653.7231	1653.7246	-0.92	0	K.TPHGDYIEFFPCYR.W
103 - 113	1272.6941	1271.6868	1271.6874	-0.45	0	R.WITGEGEIVLR.D
175 - 184	1141.5905	1140.5832	1140.5815	1.50	0	K.GVDFVLNYSK.A
185 - 193	1123.5581	1122.5508	1122.5491	1.48	0	K.AMENLFINR.F + Oxidation (M)
194 - 210	2221.9049	2220.8976	2220.9034	-2.58	0	R.FMHMFQSSWHDFADFEK.I + 2 Oxidation (M)
256 - 269	1679.7946	1678.7873	1678.7906	-1.97	0	K.LPVTTEMVECSLER.Q + Oxidation (M)
372 - 385	1622.8331	1621.8258	1621.8286	-1.76	0	R.THLVSEVFGIAMYR.Q
386 - 395	1149.6787	1148.6714	1148.6706	0.70	0	R.QLPAVHPLFK.L
413 - 424	1514.7120	1513.7047	1513.7123	-4.99	0	R.EQLICEYGLFDK.A
425 - 439	1498.7159	1497.7086	1497.7107	-1.40	0	K.ANATGGGGHVQMVQR.A + Oxidation (M)
440 - 456	1941.9575	1940.9502	1940.9554	-2.64	0	R.AVQDLTYSSLCFPEAIK.A
459 - 472	1756.7489	1755.7417	1755.7450	-1.93	0	R.GMDSTEDIPFYFYR.D + Oxidation (M)
512 - 519	1018.4686	1017.4613	1017.4590	2.30	0	K.DVYVYGMGR.G + Oxidation (M)
581 - 595	1654.8998	1653.8925	1653.8938	-0.77	0	K.GVVTIEQIVDTLPDR.G
641 - 652	1313.7431	1312.7359	1312.7350	0.64	0	K.NLEAIVSVIAER.N
657 - 667	1414.7376	1413.7303	1413.7292	0.76	1	K.KLPYYYLSPDR.I
658 - 667	1286.6417	1285.6344	1285.6343	0.12	0	K.LPYYYLSPDR.I

No match to: 842.5103, 973.5280, 998.5301, 1044.0991, 1051.7162, 1082.0530, 1090.5309, 1107.5395, 1109.4912, 1118.5094, 1122.6311, 1143.6637, 1157.5931, 1165.5831, 1165.7492, 1179.6003, 1193.6160, 1234.6804, 1235.5278, 1249.1099, 1265.6389, 1271.0884, 1277.7102, 1300.5308, 1302.7148, 1307.6794, 1320.5820, 1323.6714, 1327.7578, 1330.7629, 1340.6619, 1348.5823, 1356.6611, 1357.7238, 1365.6378, 1381.6426, 1383.6893, 1393.7321, 1423.6841, 1434.7688, 1475.7454, 1475.7925, 1493.7344, 1505.6810, 1584.7099, 1603.8225, 1638.8662, 1664.7910, 1707.7706, 1716.8505, 1729.9444, 1741.7578, 1762.8620, 1765.7324, 1791.7260, 1797.0119, 1807.9162, 1811.9146, 1837.9732, 1838.9041, 1851.9212, 1859.9639, 1887.9709, 1934.0120, 1964.0663, 1968.8552, 1972.0113, 1981.9973, 1993.9737, 1996.9743, 2083.0339, 2096.0424, 2117.0253, 2150.0785, 2211.1074, 2225.1171, 2239.1399, 2256.0461, 2257.9590, 2283.1813, 2297.2067, 2342.9882, 2367.2645, 2383.9569, 2399.0148, 2510.1341, 2541.3305, 2565.1688, 2692.4308, 2705.1590, 2717.0912, 2808.3220, 2872.3841, 2902.3992, 3223.2832, 3312.3144



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