

A Peptide fragments identified for grass carp SOCS1

(a) **SOCS1** (Protein coverage by peptides identified: 73.63%, grass carp liver)

Peptide 1

MVAHSTVEGNQGT**EE**PQVST**EP**SP**EV**SQ**SQR**SRPSQQAAILQTHFRFPNYARDFKIIAKT**T**SMLEES

Peptide 2

GFYWGPMTVEEAHQKLK**KE**EPVGTFLIRDSRQSDVFF**T**LSYKGQHG**P**VS**VR**IT**TF**KNSK**F**SLTGS**KE**ES**F**

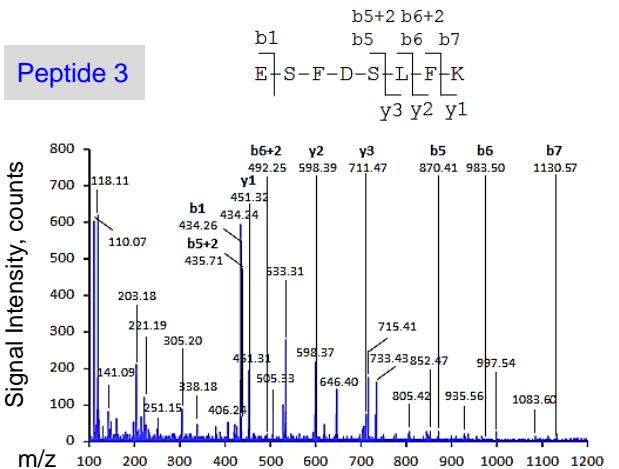
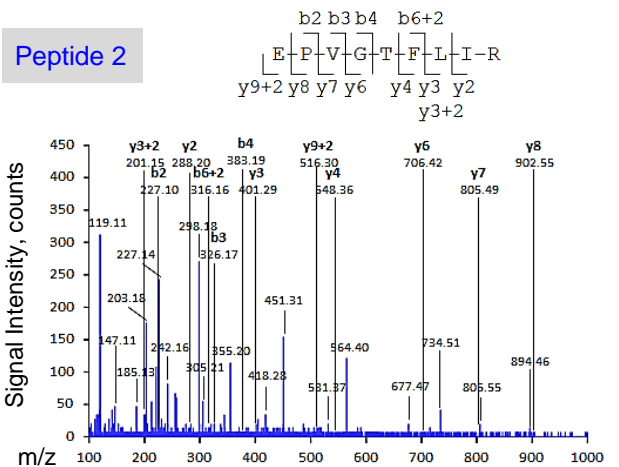
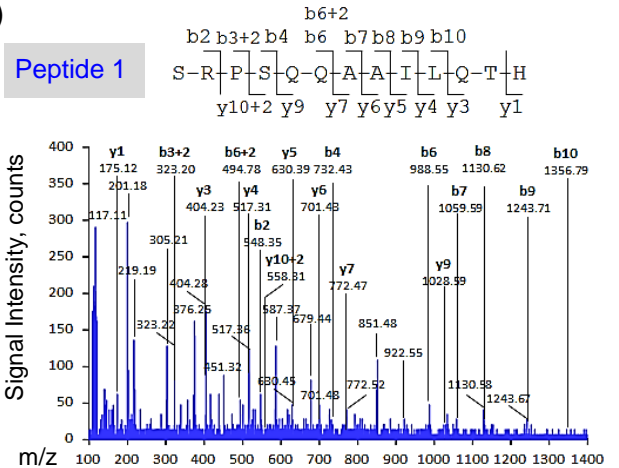
Peptide 3

DSL**FK**LLEHYI**SS**PK**GL**V**RP**Y**R**KE**PV**Q**SL**Q**L**C**RR**RI**ET**CDG**KD**ID**R**IP**VH**P**IL**K**D**FL**HAF**PH**PL**

(b)

Confid.	Peptide Sequence	Δ Mass	Prec MW	z	Prec m/z
99.00	DFLHAFPHPL	-0.022	1496.79	2	749.40
99.00	DIDRIPVHPILK	-0.085	1983.12	3	662.05
99.00	EPVGTFLIR	0.087	1030.67	2	516.34
99.00	EPVQSLQLCRR	0.051	1483.79	2	742.90
99.00	ESFDSL FK	0.040	1579.91	3	527.64
99.00	FSLTGS K	-0.086	1346.72	2	674.37
99.00	GLVRPY R	-0.059	1163.65	2	582.83
99.00	IIA K	0.000	1051.72	2	526.87
99.00	IPVHPIL K	-0.073	1523.93	3	508.98
99.00	ISSP K	-0.039	1138.68	2	570.35
99.00	ITF K NS K	-0.010	1749.08	4	438.28
99.00	LIRDS R	-0.002	1062.64	2	532.33
99.00	QSDVFF T LSY K	-0.049	1942.02	3	648.35
99.00	QSDVFF T LSYKG H GPV S VR	-0.037	2859.41	4	715.86
99.00	RI ET CDG K	0.014	1709.97	3	571.00
99.00	SRPSQQAAILQ T H	0.076	1759.08	3	587.37
99.00	SRPSQQAAILQ T HFRFP NY AR	0.043	2791.54	4	698.89
99.00	VAHSTVEGNQ G T	0.052	1460.80	3	487.94
99.00	YISSP K	-0.073	1734.01	3	579.01

(c)



B Peptide fragments identified for grass carp SOCS2

(a) **SOCS2** (Protein coverage by peptides identified: 61.86%, grass carp liver)

Peptide 1

MTCHSSDSTESIENERRSQTETQITESEQSRIATAMRDLKNTGWYWGSLTANEAK EILQDTS~~EGTFLV~~

Peptide 2 Peptide 3

RDSSQRDYLFTISAMTSAGPTNLR IEYKDGKFKLDSVVLVKPKLKQFDSVVHLVEHYVQLSRTSCKGR

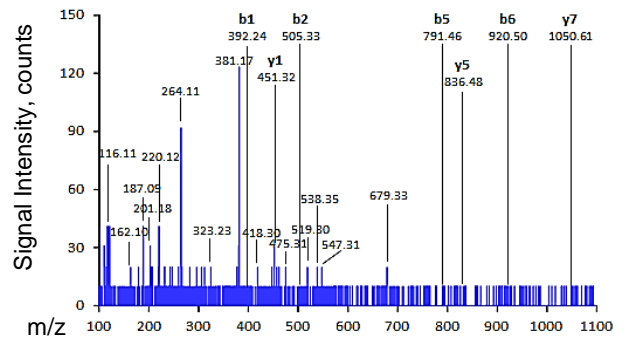
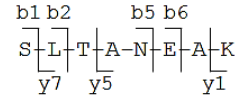
TTPPLAPNSGVSQLLLTPVYTATPSLQHL~~CRIAINKTTRRVQELPLPNRLKDYLDTDYTYNV~~

(b)

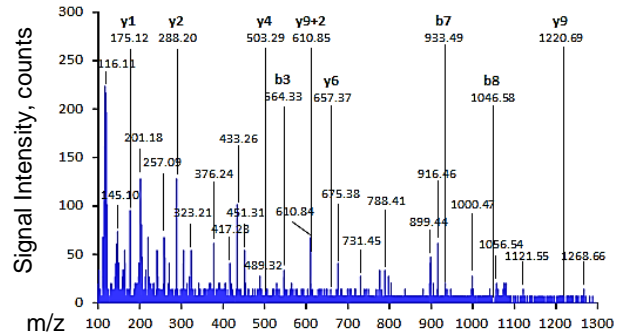
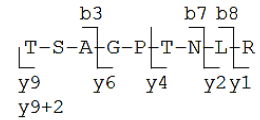
Confid.	Peptide Sequence	Δ Mass	Prec MW	z	Prec m/z
99.00	DGKFK	-0.101	1505.83	3	502.95
99.00	FKLDSVVLVKPK	-0.038	2257.38	3	753.47
99.00	HSSDSTESIENER	0.042	1793.98	3	599.00
99.00	IAINKTTRR	-0.080	1611.90	2	806.96
99.00	IATAMRDLK	0.052	1654.06	3	552.36
99.00	IATAMRDLKNTGWYWGSLTANEAK	-0.028	3675.93	5	736.19
99.00	IEYKDGK	-0.055	1764.00	3	589.01
99.00	LVRDSSQR	-0.003	1194.65	2	598.33
99.00	RSQTETQITESEQSR	0.041	2069.10	3	690.71
99.00	RVQELPLNRLK	-0.020	2106.18	3	703.07
99.00	SLTANEAK	-0.052	1440.79	2	721.40
99.00	TSAGPTNLR	-0.043	1219.64	2	610.83
99.00	TTPVYTATPSLQHL CRIAINK	-0.020	2969.43	4	743.36
99.00	VQELPLPNR	-0.025	1369.76	2	685.89

(c)

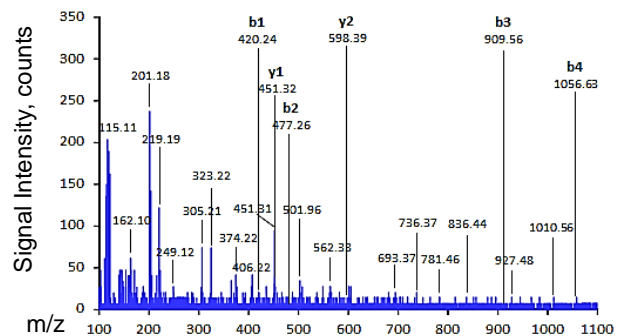
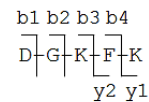
Peptide 1



Peptide 2



Peptide 3



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Peptide fragments identified for grass carp SOCS3

(a) **SOCS3** (Protein coverage by peptides identified: 88.99%, grass carp liver)

MVTHSKFDNAMSSSLFDSSMRLPSHRYKTFSSKLQYQMVQHAIRMLQESGFYWGSISGKEANHLLNS

Peptide 1

EPSGTFLVLRDSSDNRHFFFTLSVKTESGTKNLRMQCDNKSFFLQTDSKSMQSVPRFDCVLKLVHHYMP

Peptide 2

Peptide 3

SARSALSIGNRSAYYIYTGGEKIPLELLRPLPCTMSSLQHLCRKTVNGHIDVSGKKEQLPQQLKDF

LQEYDAPI

(b)

Confid.	Peptide Sequence	ΔMass	Prec MW	z	Prec m/z
99.00	AIRMLQESGFYWGSISGK	0.077	2637.50	3	880.17
99.00	DFLQEYDAPI	0.022	1513.88	2	757.95
99.00	DSSDNR	0.064	997.53	2	499.77
99.00	EANHLLNSEPSGTFVLR	0.080	2187.24	4	547.82
99.00	EQLPQQLK	-0.054	1590.90	3	531.31
99.00	FDCVLK	0.093	1377.85	3	460.29
99.00	IPLELLR	-0.023	1188.72	2	595.36
99.00	IPLELLRPLPCTM	-0.041	1813.01	3	605.34
99.00	IYTGGEK	-0.020	1374.78	3	459.27
99.00	LELLRPLPCTMSSLQHLCRKTV	0.080	3238.73	6	540.80
99.00	LPSHRYK	-0.078	1507.83	2	754.92
99.00	LQTDSK	-0.035	1298.73	3	433.92
99.00	LQYQMVQHAIR	-0.053	1689.88	3	564.30
99.00	LVHHYMPSAR	-0.011	1513.80	2	757.91
99.00	LVRDSSDNR	-0.011	1364.72	3	455.91
99.00	MPSARSAL	-0.006	1135.63	2	568.82
99.00	MVTHSK	0.020	1309.78	2	655.90
99.00	NLRMQCDNK	0.062	1790.97	2	896.49
99.00	PSARSALSIGNSR	-0.028	1618.88	3	540.63
99.00	SALSIGNSR	0.022	1207.71	2	604.86
99.00	SALSIGNRSAYY	0.042	1791.95	2	896.98
99.00	SFFLQTDSK	0.060	1679.99	3	561.01
99.00	SMQSVPR	0.034	1107.64	2	554.82
99.00	SSLQHLCR	0.064	1292.73	2	647.37
99.00	TESGTK	-0.010	1229.70	3	410.91
99.00	TFSSK	-0.025	1176.67	2	589.34
99.00	TLSVK	-0.024	1154.72	2	578.37
99.00	TVNGHIDVSGK	0.055	1735.03	3	579.35

(c)

