

Fig. S1. Typical total ion chromatograms (TIC) obtained from rat urine in the positive mode.

Control group (A), model group (B), JSP-treated group (C).

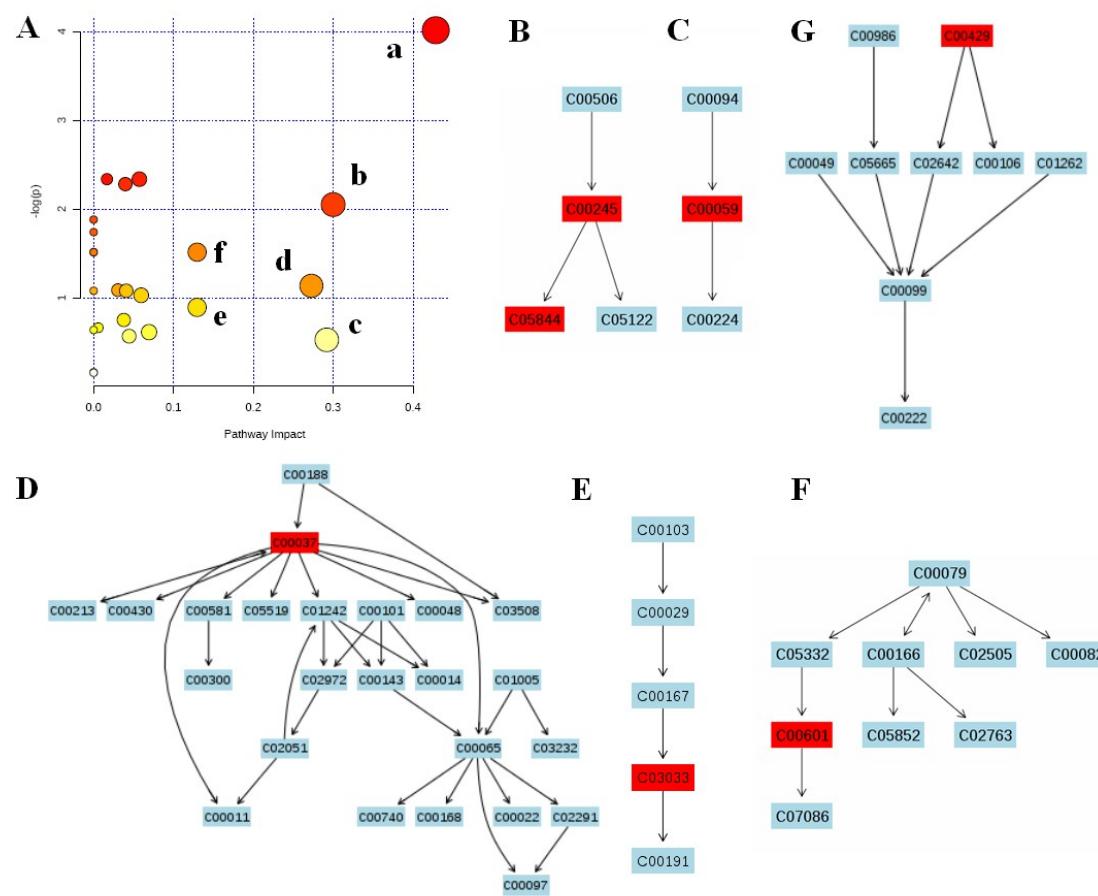


Fig.S2 Summary of pathway analysis with MetPA (A). Taurine and hypotaurine metabolism (B), Sulfur metabolism (C), Glycine, serine and threonine metabolism (D), Pentose and glucuronate interconversions (E), Phenylalanine metabolism (F), beta-Alanine metabolism (G)

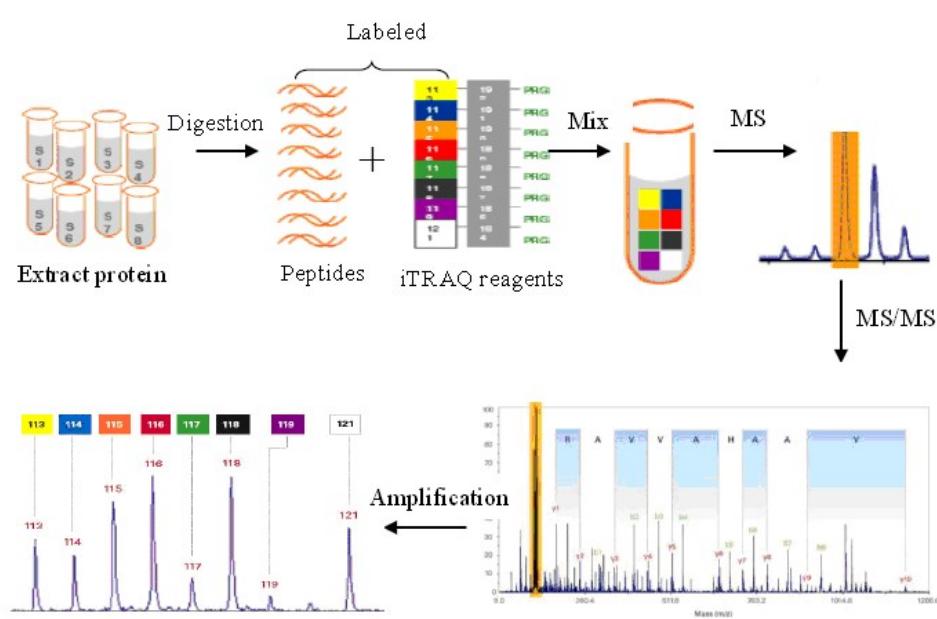


Fig. S3 The iTRAQ quantitative proteomic analyses.

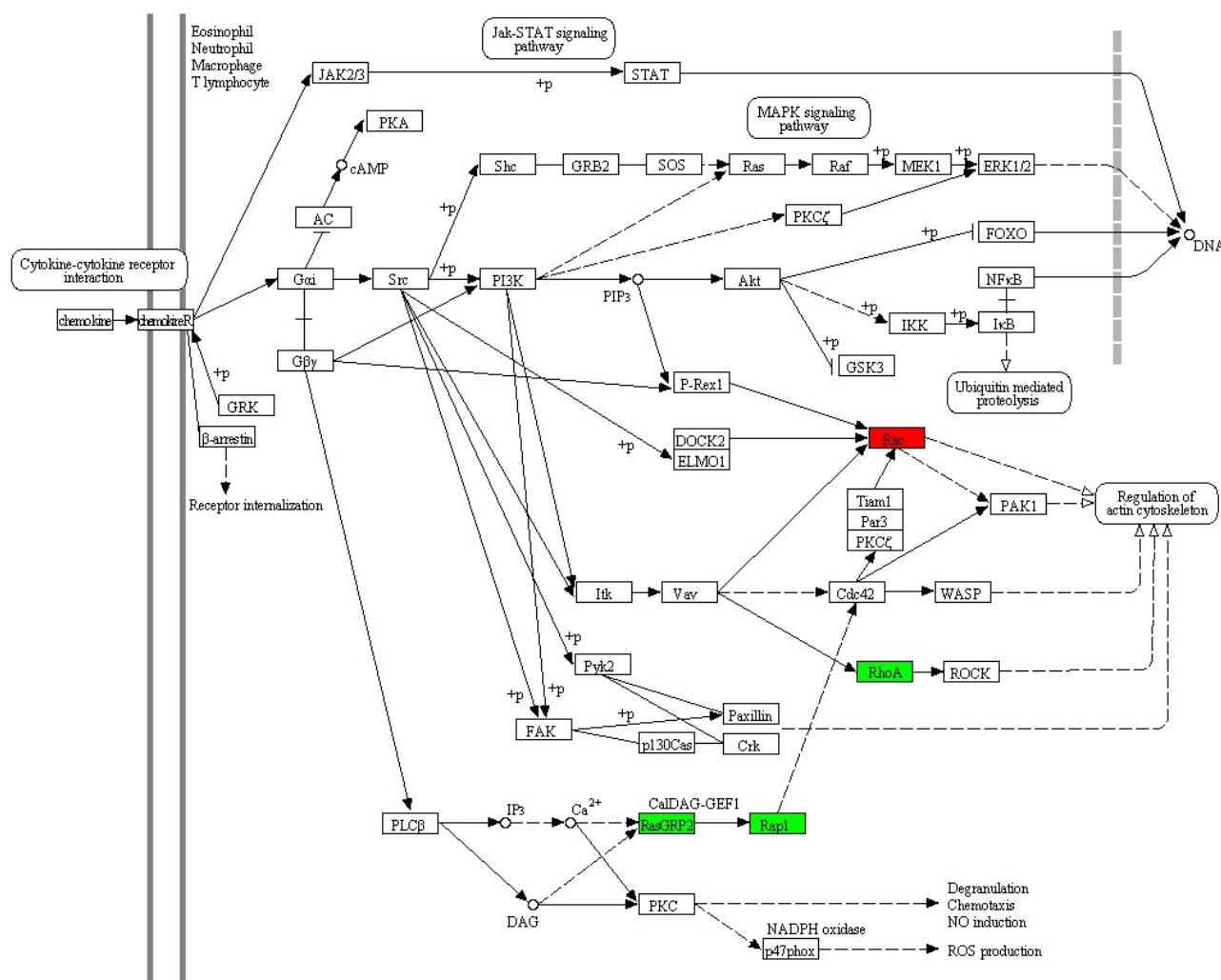


Fig.S4 iTRAQ-proteomics analysis for Pathway map of the chemokine signaling pathway (KEGG) with marked entries. Decreased (green nodes), increased (red nodes).

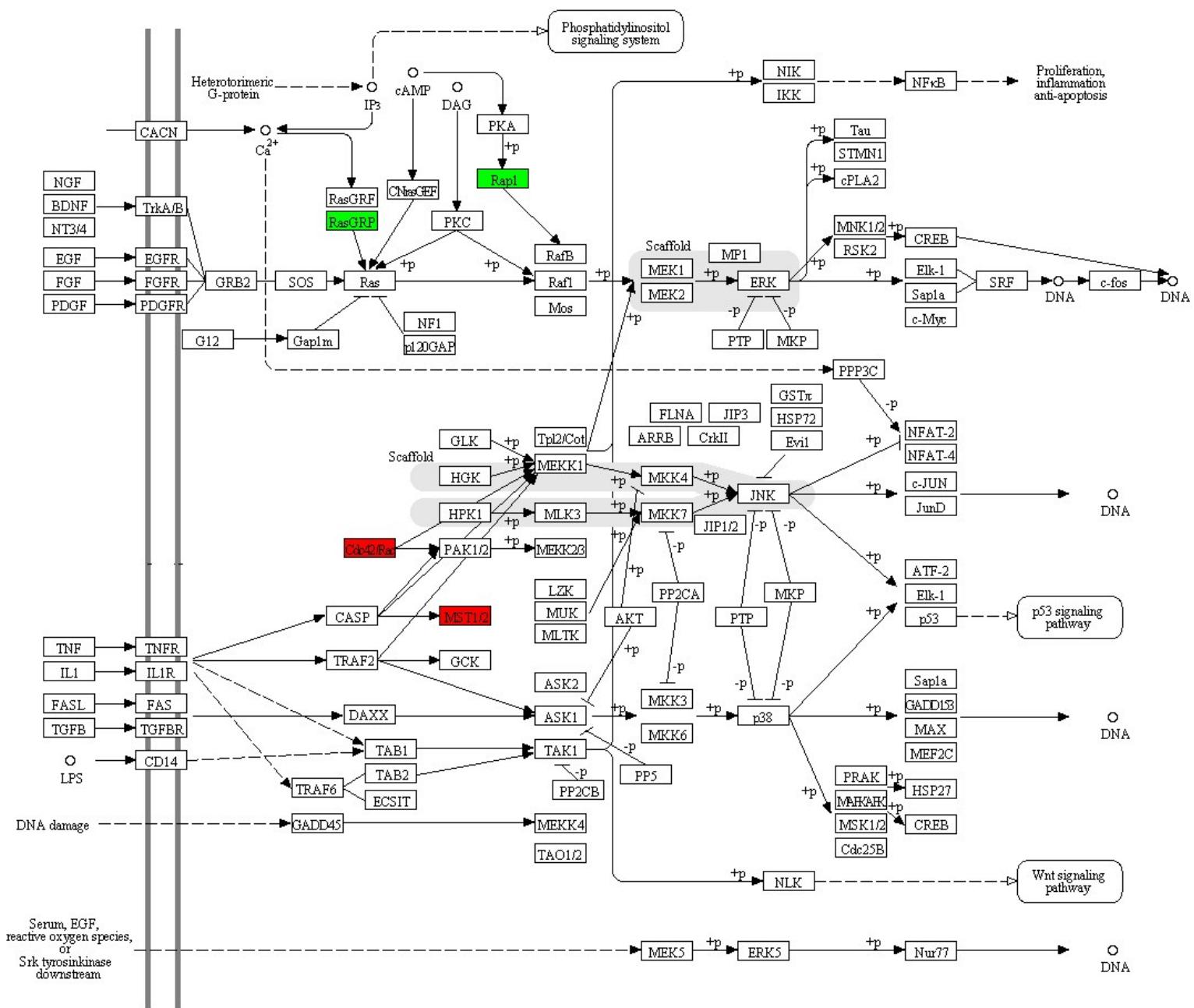


Fig.S5 Regulation of MAPK signaling pathway. The map was generated using the reference map by KEGG

(<http://www.genome.jp/kegg/>). Decreased (green nodes), increased (red nodes).

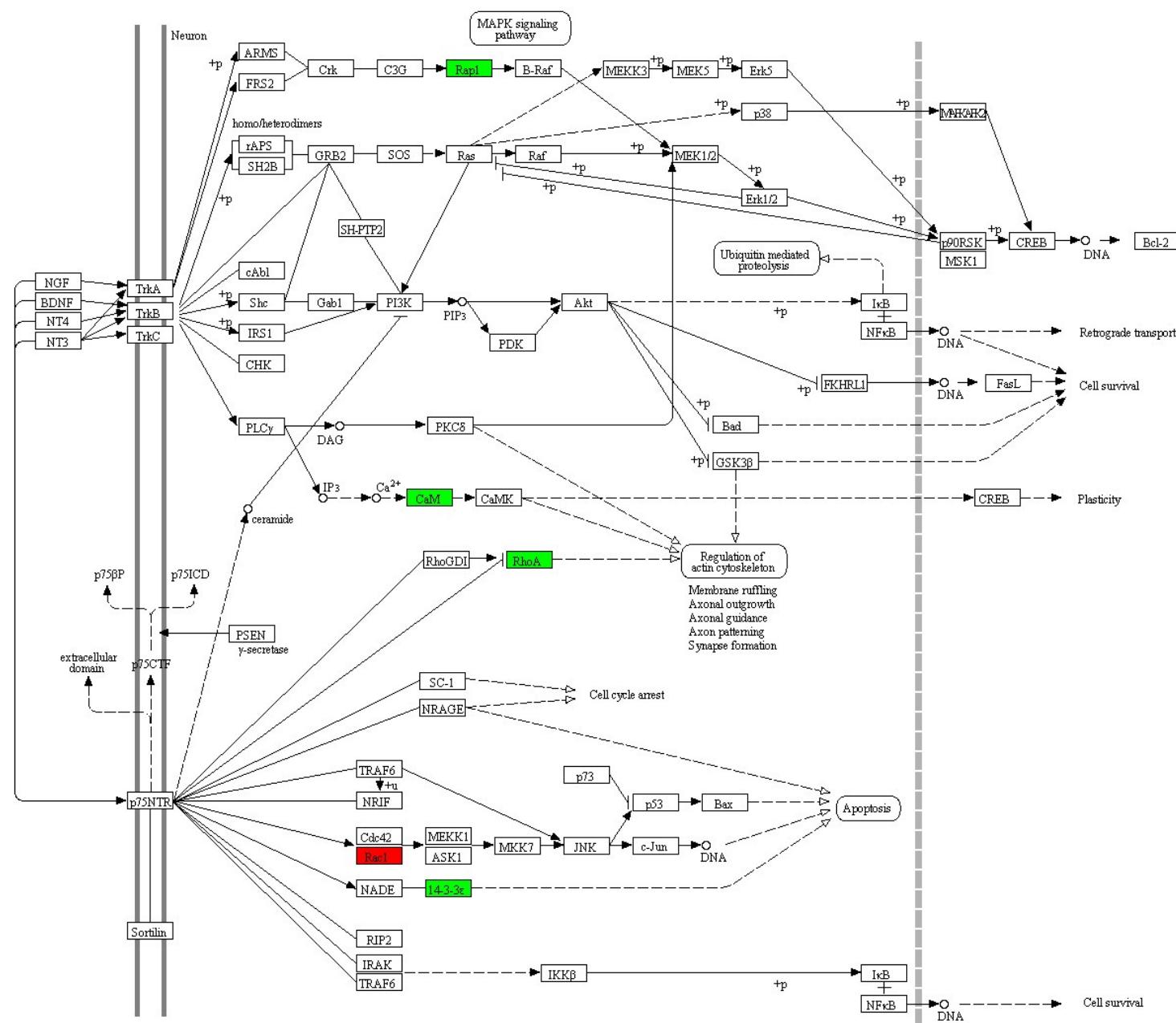


Fig. S6 Regulation of neurotrophin signaling pathway.

The map was generated using the reference map by KEGG (<http://www.genome.jp/kegg/>). Decreased (green nodes), increased (red nodes).

12	P62161	Calmodulin	174.92	33.56%	2	5	5	24	149	16.8	4.22	0.825
13	Q6RUV5	Ras-related C3 botulinum toxin substrate 1	47.2	9.90%	1	2	2	4	192	21.4	8.50	1.227
14	P20761	Ig gamma-2B chain C region	220.41	25.53%	1	5	5	53	333	36.5	7.64	1.24
15	P20762	Ig gamma-2C chain C region	166.7	27.66%	1	6	6	22	329	36.5	8.22	1.306
16	O54748	Serine/threonine-protein kinase 3	22.21	2.24%	1	1	1	1	491	56.1	5.15	1.481
17	Q9QUH3	Apolipoprotein A-V	218.26	17.98%	1	5	5	11	367	41.4	6.48	1.707

Table S4. List of the pathway associated with differentially expressed proteins in the experiments.

No	Pathway	Proteins
1	Wnt signaling pathway	Q4QQT4, P61589, Q6RUV5
2	Adherens junction	P61589, P85972, Q9Z1P2, Q6RUV5
3	Neurotrophin signaling pathway	Q62636, P61589, P63102, P35213, P62161, Q6RUV5
4	B cell receptor signaling pathway	Q6RUV5, P20761, P20762
5	Chemokine signaling pathway	Q62636, P61589, P0C643, Q6RUV5
6	PPAR signaling pathway	P06759, P04638, Q9QUH3
7	Fc gamma R-mediated phagocytosis	P45592, Q6RUV5, P20761, P20762
8	MAPK signaling pathway	Q62636, P0C643, Q6RUV5, O54748

