

## Product datasheet for **TP723406**

### Cxcl12 (NM\_021704) Mouse Recombinant Protein

#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Recombinant Proteins   |
| Description:                          | Purified recombinant protein of Mouse chemokine (C-X-C motif) ligand 12 (Cxcl12), transcript variant 1.    |
| Species:                              | Mouse  |
| Expression Host:                      | E. coli  |
| Expression cDNA Clone or AA Sequence: | KPVLSYRCP CRFFESHIAR ANVKHLKILN TPNCALQIVA RLKNNNRQVC IDPKLKWIQE YLEKALNKRL KM                             |
| Tag:                                  | Tag Free   |
| Predicted MW:                         | 8.5 kDa  |
| Concentration:                        | lot specific   |
| Purity:                               | >95% as determined by SDS-PAGE and Coomassie blue staining   |
| Buffer:                               | Lyophilized from a 0.2 $\mu$ M filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2              |
| Bioactivity:                          | Determined by its ability to chemoattract human monocytes using a concentration range of 50.0-100.0 ng/ml. |
| Endotoxin:                            | Endotoxin level is < 0.1 ng/ $\mu$ g of protein (< 1 EU/ $\mu$ g)  |
| Storage:                              | Store at -80°C.  |
| Stability:                            | Stable for at least 6 months from date of receipt under proper storage and handling conditions.            |
| RefSeq:                               | <a href="#">NP_068350</a>  |
| Locus ID:                             | 20315  |
| UniProt ID:                           | <a href="#">P40224</a>   |
| RefSeq Size:                          | 1878   |
| Cytogenetics:                         | 6 F1   |
| RefSeq ORF:                           | 267  |
| Synonyms:                             | PB; Pbsf; PBSF/SD; Scyb1; Scyb12; Sdf; SDF-; Sdf1; TLS; Tlsf; TP; Tpar1                                    |



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**Summary:**

This gene encodes a member of the alpha chemokine protein family. The encoded protein is secreted and functions as the ligand for the G-protein coupled receptor, chemokine (C-X-C motif) receptor 4. The encoded protein plays a role in many diverse cellular functions, including embryogenesis, immune surveillance, inflammation response, tissue homeostasis, and tumor growth and metastasis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2013]