

## Product datasheet for TP522708

### Izumo1 (NM\_001018013) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse izumo sperm-egg fusion 1 (Izumo1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR222708 representing NM_001018013 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MGPHTLLLAALANCLCPGRPCIKCDQFVTDALKTFENTYLNDHLPDHIHKNVMMRMVNHEVSSFGVWTS EDSYLGAVDENTLEQATWSFLKDLKRITDSDLKGELEKELLWMLRHQKDFNNLARQFQKEVLCPNKCG VMSQTLIWCLKCEKQLHICRKS LDCGERHIEVHRSEDLVLDCLLSWHRASKGLTDYSFYRVWENSSETLI AKGKEPYLTKSMVGPEDAGNYRCVLDTINQGHATVIRYDVTVLPKHEENQPPNIITQEEHETPVHVT QTPPGQPESELYPELHPELYPELIPTVAQNPEKKMKTRLLILLTLGFVVLVASIIISVLHFRKVSALK NASDEVKPTASGSKSDQSLSQMGLKKASQADFNDSYSGDKSEATEN</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
Tag:	C-MYC/DDK
Predicted MW:	45.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_001018013</a>
Locus ID:	73456
UniProt ID:	<a href="#">Q9D9J7</a>



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RefSeq Size: 1493

Cytogenetics: 7 B3

RefSeq ORF: 1191

Synonyms: 1700058F15Rik; Izumo

**Summary:** Essential sperm cell-surface protein required for fertilization by acting as a ligand for IZUMO1R/JUNO receptor on egg (PubMed:15759005, PubMed:24739963, PubMed:27309808). The IZUMO1:IZUMO1R/JUNO interaction is a necessary adhesion event between sperm and egg that is required for fertilization but is not sufficient for cell fusion (PubMed:15759005, PubMed:24739963, PubMed:27309808). The ligand-receptor interaction probably does not act as a membrane 'fusogen' (PubMed:15759005, PubMed:24739963, PubMed:27309808). [UniProtKB/Swiss-Prot Function]