

## Product datasheet for TP504593

### Impact (NM\_008378) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse impact, RWD domain protein (Impact), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR204593 protein sequence <span style="color: red;">Red</span> =Cloning site <span style="color: green;">Green</span> =Tags(s)  MAEEEVGNSQRQSEEIEMAAIYGEEWCVIDENAKIFCIRVTFMDDPKWTLCLQVMLPSEYPGTAPPSY QLNAPWLKQGERADLSNSLEEIYVHNMGESILYQWVEKIRDALIQSQITEPDVKKKTEEEVESEED PILEHPPENPVKTLDLKISEETQPETEELPPVAHGVPITDRRSTFQAHVAPVVCPEQVKLVAKLYENKK IASATHNIYAYRIFCEDKQTFLLQDCEDDGETAAGGRLLHLMELNVKNVMVVSRWYGGILLGPDRFKHI NNCARNILVEKNFTNTPDESTKNLGKKKVKDKKKNDH  <span style="color: red;">TR</span> <span style="color: green;">TRPLEQKLISEEDLAANDILDYKDDDDKV</span>
Tag:	C-MYC/DDK
Predicted MW:	36.3 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_032404</a>
Locus ID:	16210
UniProt ID:	<a href="#">O55091</a>


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RefSeq Size:	3432
Cytogenetics:	18 A1
RefSeq ORF:	954
Synonyms:	E430016J11Rik
Summary:	<p>Translational regulator that ensures constant high levels of translation upon a variety of stress conditions, such as amino acid starvation, UV-C irradiation, proteasome inhibitor treatment and glucose deprivation. Plays a role as a negative regulator of the EIF2AK4/GCN2 kinase activity; impairs GCN1-mediated EIF2AK4/GCN2 activation, and hence EIF2AK4/GCN2-mediated eIF-2-alpha phosphorylation and subsequent down-regulation of protein synthesis (PubMed:15937339, PubMed:23447528, PubMed:24333428). May be required to regulate translation in specific neuronal cells under amino acid starvation conditions by preventing GCN2 activation and therefore ATF4 synthesis (PubMed:15937339, PubMed:23447528). Through its inhibitory action on EIF2AK4/GCN2, plays a role in differentiation of neuronal cells by stimulating neurite outgrowth (PubMed:23447528).[UniProtKB/Swiss-Prot Function]</p>