

## Product datasheet for **TP303202M**

### EEF1D (NM\_001960) Human Recombinant Protein

#### Product data:

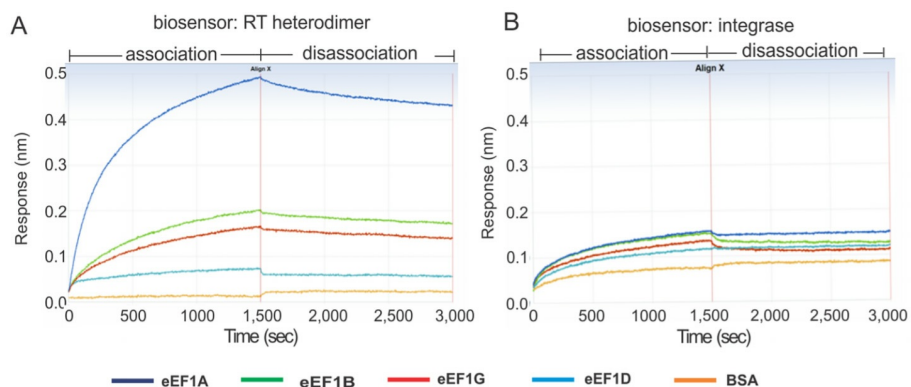
<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant protein of human eukaryotic translation elongation factor 1 delta (guanine nucleotide exchange protein) (EEF1D), transcript variant 2, 100 µg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>RC203202 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	MRSGKASCTLETVWEDKHKYEEAERRFYEHEATQAAAASAQQLPAEGPAMNGPGQDDPEDADEAEAPDGGS RRDPRKSQDSRKPLQKKRKRSPKSGLGPADLALLGLSAERVWLDKSLFDQAESSYRQKLADVAAQAAWPP ALAPWGLCTHGNQVACHHVTWGIWVNKSSFDQAERAFVEWSQALLAPEGSRROGTPNTGQQVAVPDLAH QPSPVNGQPPLGSLQALVREVWLEKPRYDAAERGFYEALFDGHPGKVRQLERAGLAEGARRRRDRRG RNILGNKRAGLRRADGEAPSALPYCYFLQKDAEAPWLSKPAYDSAECRHAAEALRVAWCLEAASLSHRP GPRSGLSVSSLRPNRKMATNFLAHEKIWFDFKFKYDDAERRFYEQMNGPVAGASRQENGASVILRDIARAR ENIQKSLAGSSGPGASSGTSGDHGELVRIASLEVENQSLRGVVQELQQAIKLEARLNVLEKSSPGHRA TAPQTQHVSMPMRQVEPPAKKPATPAEDDEDDEDIDLFGSDNEEDKEAAQLREERLRQYAEKKAKKPPALVA KSSILLDVKPWDDDETMAQLEACVRSIQLDGLVWGASKLVPVGYGIRKLQIQCVVEDDKVGTDLLEEEIT KFEHVQSVDIAAFNKI
	<b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	30.9 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Bioactivity:</b>	Biolayer interferometry (BLI) assay (PMID: <a href="#">26624286</a> )
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.



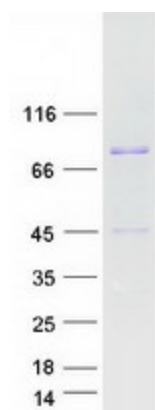
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<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<u>NP_001951</u>
<b>Locus ID:</b>	1936
<b>UniProt ID:</b>	<u>P29692</u>
<b>RefSeq Size:</b>	1276
<b>Cytogenetics:</b>	8q24.3
<b>RefSeq ORF:</b>	1944
<b>Synonyms:</b>	EF-1D; EF1D; FP1047
<b>Summary:</b>	This gene encodes a subunit of the elongation factor-1 complex, which is responsible for the enzymatic delivery of aminoacyl tRNAs to the ribosome. This subunit, delta, functions as guanine nucleotide exchange factor. It is reported that following HIV-1 infection, this subunit interacts with HIV-1 Tat. This interaction results in repression of translation of host cell proteins and enhanced translation of viral proteins. Several alternatively spliced transcript variants encoding multiple isoforms have been found for this gene. Related pseudogenes have been defined on chromosomes 1, 6, 7, 9, 11, 13, 17, 19.[provided by RefSeq, Aug 2010]

### Product images:



Biolayer interferometry assays (BLI) of a biotinylated HIV RTp66/p51-loaded or integrase-loaded biosensor with 60 nM of purified eEF1A (OriGene [TP309697]), eEF1B (OriGene [TP321264]), eEF1D (OriGene [TP303202]), eEF1G (OriGene [TP319578]) or BSA as analytes. Figure cited from PLoS Pathog, PMID: 26624286



Coomassie blue staining of purified EEF1D protein (Cat# [TP303202]). The protein was produced from HEK293T cells transfected with EEF1D cDNA clone (Cat# [RC203202]) using MegaTran 2.0 (Cat# [TT210002]).