

## Product datasheet for TP510451

### Rfx3 (NM\_011265) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse regulatory factor X, 3 (influences HLA class II expression) (Rfx3), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR210451 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
Tag:	C-MYC/DDK
Predicted MW:	83.5 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.

MQTSETGSDTGSTVTLQTSVASQAAVPTQVVQQVPVQQVQVQTVQQVQHVYPAQVQYVEGSDTVYTNG  
AIRTTTTYPYTETQMYSQNTGGNYFDTQGSSAQVTTVVSSHSMVGTGGIQMGVTGGQLISSGGTYLIGNS  
MENSGHSVHTTRASPATIEMAIETLQKSDGLSTHRSSLLNSHLQWLLDNYETAEGVSLPRSTLYNHLYR  
HCQEHLKDPVNAASFGKLIRSFIMGLRTRRLGTRGNSKYHYGIRVKPDSPLNRLQEDMQYMAMRQQPMQ  
QKQRYKPMQKVDGVADGFTGSGQQTGTSVEQTVIAQSQHHQQFLDASRALPEFGEVEISSLPDGTTFEDI  
KSLQSLYREHCEAILDVVVNLQFSLIEKLWQTFWRYSPSTPADGTTITESSNLSEIESRLPKAKLITLCK  
HESILKWMCNCDHGMQALVEILIPDVLRLPIPSALTQAIRNFAKSLEGWLSNAMNIPQRMIQTKVAAVS  
AFAQTLRRYTSLNHLAQAARAVLQNTSQINQMLSDLNRVDFANVQEQASWVCQDDNMVQRLETDFKMTL  
QQQSTLEQWAAWLDNMMMALKPYEGRPSFPKAAARQFLLKWSFYSSMVIRDLTLRSAASFGSFHLIRLLY  
DEYMFYLVEHRVAQVTGETPIAVMGEFGDLNAVSPGNLDKDEGSEVESETDEDLDDSSSEPRAKREKTELS  
QAFPVGCMPVLESQVPSLLNPLHSEHIVTSTQIRQCSATGNTYAV

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<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>	<a href="#">NP_035395</a>
<b>Locus ID:</b>	19726
<b>UniProt ID:</b>	<a href="#">P48381</a>
<b>RefSeq Size:</b>	9187
<b>Cytogenetics:</b>	19 C1
<b>RefSeq ORF:</b>	2250
<b>Synonyms:</b>	C230093O12Rik; MRFX3
<b>Summary:</b>	<p>Transcription factor required for ciliogenesis and islet cell differentiation during endocrine pancreas development. Essential for the differentiation of nodal monocilia and left-right asymmetry specification during embryogenesis. Required for the biogenesis of motile cilia by governing growth and beating efficiency of motile cells (PubMed:15121860, PubMed:19671664). Also required for ciliated ependymal cell differentiation (PubMed:16930429). Together with RFX6, participates in the differentiation of 4 of the 5 islet cell types during endocrine pancreas development, with the exception of pancreatic PP (polypeptide-producing) cells (PubMed:17229940). Regulates transcription by forming a heterodimer with another RFX protein and binding to the X-box in the promoter of target genes (By similarity). Regulates the expression of genes involved in ciliary assembly (DYNC2LI1, FOXJ1 and BBS4) and genes involved in ciliary motility (DNAH11, DNAH9 and DNAH5). Represses transcription of MAP1A in non-neuronal cells but not in neuronal cells.[UniProtKB/Swiss-Prot Function]</p>