

## Product datasheet for TP521965

### Lrrc8a (NM\_177725) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse leucine rich repeat containing 8A VRAC subunit A (Lrrc8a), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR221965 representing NM_177725 Red=Cloning site Green=Tags(s)

MIPVTELRVFADTQPAYRILKPWWVDVFTDYISIVMLMIAVFGGTLQVTQDKMICLPCKWVTKDSCNDSFR  
GWAASSPEPTYPNSTVLPTDGTGPTGIKYDLDRHQYNYVDAVCYENRLHWFACYFPYLVLHLTLIFLACS  
NFWFKFPRTSKLEHFVSILLKCFDSPWTRALSETVVEESDPKPAFSKMNGSMDKKSSTVSEDVEATVP  
MLQRTKSRIEQGIVDRSETGVLDKKEGEQAKALFEKVKKFRTHVEEGDIVRLYMRQTIKVIKIALIIC  
YTVYYVHNIKFDVDCTVDIESLTGYRTYRCAHPLATLFKILASFYISLVIFYGLICMYTLWWMLRRSLKK  
YSFESIREESSYSDIPDVKNDFAFMLHLIDQYDPLYSKRFVFLSEVSENKLRQLNLNNEWTLDKLRQRL  
TKNAQDKLELHFLMSGIPDVFDFLVELEVLKLELIPDVTIPPSIAQLTGLKELWLYHTAAKIEAPALAF  
LRENLRALHIKFTDIKEIPLWIYSLKTLLELHLTGNLSAENNRIVIDGLRELKRLKVLRLKSNLSKLPQ  
VWTDVGVHLQKLSINNEGKLVNLSLKKMVNLTLELIRCDLERIPHSIFSLHNLQEIDLKDNNLKTI  
EISFQHLHRLTCLKLWYNHAIYIPIQIGNLTNLERLYLNRNKIEKIPTQLFYCRKRLRYLDLSHNNLTF  
PADIGLLQNLQNLAVTANRIEALPPELFQCRKLRALHLGNNVLQSLPSRVGELTNLTQIELRGNRLECLP  
VELGECPLLKRSGLVVEEDLFSTLPPEVKERLWRADKEQA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	94.6 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.



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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_808393</a>
<b>Locus ID:</b>	241296
<b>UniProt ID:</b>	<a href="#">Q80WG5</a>
<b>RefSeq Size:</b>	4254
<b>Cytogenetics:</b>	2 B
<b>RefSeq ORF:</b>	2430
<b>Synonyms:</b>	Lrrc8; mKIAA1437
<b>Summary:</b>	Essential component of the volume-regulated anion channel (VRAC, also named VSOAC channel), an anion channel required to maintain a constant cell volume in response to extracellular or intracellular osmotic changes (PubMed:29769723). The VRAC channel conducts iodide better than chloride and can also conduct organic osmolytes like taurine (By similarity). Mediates efflux of amino acids, such as aspartate and glutamate, in response to osmotic stress (By similarity). Required for channel activity, together with at least one other family member (LRRC8B, LRRC8C, LRRC8D or LRRC8E); channel characteristics depend on the precise subunit composition. Can form functional channels by itself (in vitro) (By similarity). Involved in B-cell development: required for the pro-B cell to pre-B cell transition (PubMed:14660746, PubMed:24752297). Also required for T-cell development (PubMed:24752297).[UniProtKB/Swiss-Prot Function]