

Product datasheet for PH326214

LRRC8D (NM_001134479) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	LRRC8D MS Standard C13 and N15-labeled recombinant protein (NP_001127951)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC226214
Predicted MW:	98.2 kDa
Protein Sequence:	>RC226214 protein sequence Red=Cloning site Green=Tags(s)

MFTLAEVASLNDIQPTYRILKPWWDFMDYLAVVMLMVAIFAGTMQLTKDQVVCPLPVLPSVNSKAHTPP
GNAEVTNIPKMEAATNQDQDGRRTNDISFGTSAVTPDIPLRATYPRTFALPNQEAKKEKDDPTGRKTN
LDFQQYVFINQMCYHLALPWYSKYFPYLALIHITILMVSSNFWFKYPKTCSKVEHFVSILGKCFESPWTT
KALSETACEDSEENKQRITGAQTLPKHVSTSSDEGSPSASTPMINKTGFKFSAEKPVIEVPSMTILDKKD
GEQAKALFEKVRKFRAHVEDSDLIYKLYVVQTVIKTAKFIFILCYTANFVNAISFEHVCKPKVEHLIGYE
VFECTHNMAYMLKLLISYISIIICVYGFICLYTLFWLFRIPLKEYSFEKVREESSFDIPDVKNDFAFLL
HMVDQYDQLYSKRFGVFLSEVSENKLRREISLNHEWTFEKLQHISRNAQDKQELHLFMLSGVDPDAVFDLT
DLVDLKLLELPEAKIPAKISQMTNLQELHLCHCPAKVEQTAFAFLRDHLRCLHVKFQDVAEIPAWVYLLK
NLRELYLIGNLSENKMIIGLESLRELRLKILHVKSNTKVPNSITDVAPHLTKLVIHNDGTLLVLS
LKKMMNVAEELQNCERIPHAIFSLSNLQELDLKSNNIRTIEEIIISFQHLKRLTCLKLWHNKIVTIPP
SITHVKNLESFYFSNNKLESPLVAVFSLQKLRCLDVSYNNISMIPIEIGLLQNLQHLHITGNKVDILPKQ
LFKCIKLRNLGQNCITSLPEKVGQLSQLTQLELKGNCCLDRLPAQLGQCRLKKSGLVVEDHFLFDTLPL
EVKEALNQDINIPFANGI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.



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RefSeq: [NP_001127951](#)

RefSeq Size: 3795

RefSeq ORF: 2574

Synonyms: LRRC5

Locus ID: 55144

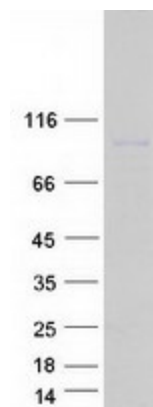
UniProt ID: [Q7L1W4](#), [B3KRU1](#)

Cytogenetics: 1p22.2

Summary: Non-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:24790029, PubMed:26530471, PubMed:26824658, PubMed:28193731). The VRAC channel conducts iodide better than chloride and can also conduct organic osmolytes like taurine (PubMed:24790029, PubMed:26824658, PubMed:28193731). Plays a redundant role in the efflux of amino acids, such as aspartate, in response to osmotic stress (PubMed:28193731). Channel activity requires LRRC8A plus at least one other family member (LRRC8B, LRRC8C, LRRC8D or LRRC8E); channel characteristics depend on the precise subunit composition (PubMed:24782309, PubMed:24790029, PubMed:26824658, PubMed:28193731). LRRC8A and LRRC8D are required for the uptake of the drug cisplatin (PubMed:26530471). Mediates the import of the antibiotic blasticidin-S into the cell (PubMed:24782309).[UniProtKB/Swiss-Prot Function]

Protein Families: Transmembrane

Product images:



Coomassie blue staining of purified LRRC8D protein (Cat# [TP326214]). The protein was produced from HEK293T cells transfected with LRRC8D cDNA clone (Cat# [RC226214]) using MegaTran 2.0 (Cat# [TT210002]).