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Product datasheet for RR209103L3V

Lrrc8a (NM_001024782) Rat Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Lrrc8a (NM_001024782) Rat Tagged ORF Clone Lentiviral Particle
Symbol:	Lrrc8a
Synonyms:	Lrrc8
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_001024782
ORF Size:	2430 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RR209103).
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	NM_001024782.1, NP_001019953.1
RefSeq Size:	3328 bp
RefSeq ORF:	2433 bp
Locus ID:	311846
UniProt ID:	Q4V8I7
Cytogenetics:	3p12

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Gene Summary: 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:28833202). 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 (PubMed:28833202). Required for in vivo channel activity, together with at least one other family member (LRRC8B, LRRC8C, LRRC8D or LRRC8E); channel characteristics depend on the precise subunit composition (PubMed:28833202). Can form functional channels by itself (in vitro). Involved in B-cell development: required for the pro-B cell to pre-B cell transition (By similarity). Also required for T-cell development (By similarity). [UniProtKB/Swiss-Prot Function]