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Product datasheet for MC226987

Lgals8 (NM_001199043) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lgals8 (NM_001199043) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Lgals8
Synonyms:	1200015E08Rik; AI326142; D13Ertd524e; Lgals-8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

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>MC226987 representing NM_001199043
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTGTCCTTAAATAACCTACAAAATATCATCTATAACCCGATAATCCCCTATGTTGGCACCATTACTG
AGCAATTGAAGCCTGGCTCTCTGATTGTAATCCGTGGGCATGTCCCTAAAGATTCAGAAAGATTCCAGGT
TGACTTTCAGCTGGGCAACAGCCTGAAGCCAAGAGCAGACGTGGCCTTCCACTTTAACCCTCGGTTCAAA
AGGTCTAGCTGCATTGTTTGTAACACACTGACACAGGAGAAGTGGGGCTGGGAGGAGATCACCTACGACA
TGCCCTTCAGAAAAGAAAAGTCCTTTGAGATCGTGTTCATGGTGCTCAAGAACAAATTCCAGGTGGCTGT
GAACGGAAGGCATGTTCTGCTGTACGCCCACAGGATCAGCCCGGAGCAGATCGACACAGTGGGCATCTAC
GGCAAAGTGAACATCCACTCCATCGGGTTCAGATTCAGCTCGGATTTACAGAGTATGGAAACATCTGCTC
TGGGACTGACACAGATAAACAGAGAGAATATACAAAAGCCAGGCAAGCTCCAGCTGAGCCTGCCATTTGA
AGCAAGGTTGAATGCCTCCATGGGTCCTGGACGAACCGTTGTCATTAAAGGGGAAGTGAACACCAATGCC
CGAAGCTTTAATGTTGACCTAGTGGCAGGAAAAACAAGGGATATCGCTCTGCACTTGAACCCACGCCTCA
ATGTGAAAGCATTTGTAAGAAATTCCTTTCTTCAGGATGCCTGGGGAGAAGAGGAGAGAAATATTACCTG
CTTCCCATTTAGTTCTGGGATGTACTTTGAGATGATAATCTACTGTGATGTCCGGGAATTCAAGGTTGCT
ATAAATGGTGTGCACAGCCTGGAGTACAAACACAGATTTAAAGACCTAAGCAGTATTGATACACTATCAG
TCGATGGTGATATCCGTTTGCTGGATGTAAGGAGCTGGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Restriction Sites:	SgfI-MluI
ACCN:	NM_001199043

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Insert Size:	951 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_001199043.1, NP_001185972.1
RefSeq Size:	2996 bp
RefSeq ORF:	951 bp
Locus ID:	56048
UniProt ID:	Q9JL15
Cytogenetics:	13 4.64 cM
Gene Summary:	Beta-galactoside-binding lectin that acts as a sensor of membrane damage caused by infection and restricts the proliferation of infecting pathogens by targeting them for autophagy. Detects membrane rupture by binding beta-galactoside ligands located on the lumenal side of the endosome membrane; these ligands becoming exposed to the cytoplasm following rupture. Restricts infection by initiating autophagy via interaction with CALCOCO2/NDP52. Required to restrict infection of bacterial invasion such as S.typhimurium. Also required to restrict infection of Picornaviridae viruses. Has a marked preference for 3'-O-sialylated and 3'-O-sulfated glycans.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) differs in the 5' UTR and uses an alternate in-frame splice site in the 5' coding region, compared to variant 3. Variants 1 and 2 encode the same isoform (1), which is shorter than isoform 2. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.

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