

## Product datasheet for MR229198

### Lgals8 (NM\_001199043) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lgals8 (NM_001199043) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lgals8
Synonyms:	1200015E08Rik; AI326142; D13Ert524e; Lgals-8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR229198 representing NM_001199043 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTTGTCCTTAAATAACCTACAAAATATCATCTATAACCCGATAATCCCCTATGTTGGCACCATTACTG  
AGCAATTGAAGCCTGGCTCTCTGATTGTAATCCGTGGGCATGTCCTAAAGATTCAGAAAGATTCCAGGT  
TGACTTTCAGCTGGGCAACAGCCTGAAGCCAAGAGCAGACGTGGCCTTCCACTTTAACCCCTCGGTTCAA  
AGGTCTAGCTGCATTGTTTGAACACACTGACACAGGAGAAGTGGGGCTGGGAGGAGATCACCTACGACA  
TGCCCTTCAGAAAAGAAAAGTCCTTTGAGATCGTGTTTCATGGTGCTCAAGAACAAATTCAGGTGGCTGT  
GAACGGAAGGCATGTTCTGCTGTACGCCACAGGATCAGCCCGAGCAGATCGACACAGTGGGCATCTAC  
GGCAAAGTGAACATCCACTCCATCGGGTTCAGATTCAGCTCGGATTTACAGAGTATGAAACATCTGCTC  
TGGGACTGACACAGATAAACAGAGAGAATATAAAAAGCCAGGCAAGCTCCAGCTGAGCCTGCCATTTGA  
AGCAAGGTTGAATGCCTCCATGGGTCCTGGACGAACCGTTGTCATTAAAGGGGAAGTGAACCAATGCC  
CGAAGCTTTAATGTTGACCTAGTGGCAGGAAAAACAAGGGATATCGCTCTGCACTTGAACCCACGCCCTCA  
ATGTGAAAGCATTGTAAGAAATTCCTTCTTCAGGATGCCTGGGAGAAGAGGAGAGAAATATTACCTG  
CTTCCCATTAGTTCTGGGATGTACTTTGAGATGATAATCTACTGTGATGCCGGAATTCAGGTTGCT  
ATAAATGGTGTGCACAGCCTGGAGTACAACACAGATTTAAAGACCTAAGCAGTATTGATACACTATCAG  
TCGATGGTGATATCCGTTTGTCTGGATGTAAGGAGCTGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR229198 representing NM\_001199043  
Red=Cloning site Green=Tags(s)

MLSLNNLQNIYNPPIIPYVGTITEQLKPGSLIVIRGHVPKDSERFQVDFQLGNSLKPRADVAHFHNPRFK  
 RSSCIVCNTLTQEKGWEEITYDMPFRKEKSFEIVFVMLKNKFQVAVNGRHVLLYAHRISPEQIDTVGIY  
 GKVNIHSIGFRFSSDLQSMETSALGLTQINRENIQKPGKQLSLPFEARLNASMGPGRTVVIKGEVNTNA  
 RSFNVDLVAGKTRDIALHLNPRNLNVKAFVRNSFLQDAWGEEERNITCFPFSSGMVFEMIIYCDVREFKVA  
 INGVHSLEYKHRFKDLSSIDTLSVDGDIRLLDVRSW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001199043

**ORF Size:** 948 bp

**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.

**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

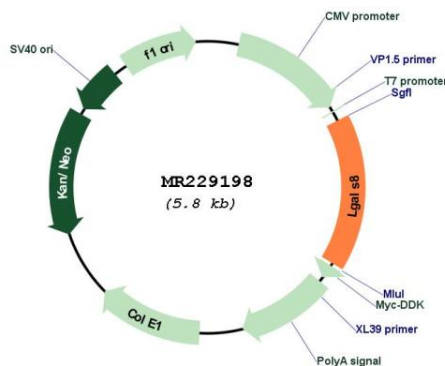
**UniProt ID:** [Q9JL15](#)

**Cytogenetics:** 13 4.64 cM

**MW:** 36.2 kDa

**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 luminal 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]

### Product images:



Circular map for MR229198