

Product datasheet for **MR204541**

Lgals8 (NM_018886) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lgals8 (NM_018886) 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:	>MR204541 representing NM_018886 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTTGTCCTTAAATAACCTACAAAATATCATCTATAACCCGATAATCCCCTATGTTGGCACCATTACTG
AGCAATTGAAGCCTGGCTCTCTGATTGTAATCCGTGGGCATGTCCTAAAGATTCAGAAAGATTCCAGGT
TGACTTTCAGCTGGGCAACAGCCTGAAGCCAAGAGCAGACGTGGCCTTCCACTTTAACCCCTCGTTCAA
AGGTCTAGCTGCATTGTTTGAACACACTGACACAGGAGAAGTGGGGCTGGGAGGAGATCACCTACGACA
TGCCCTTCAGAAAAGAAAAGTCCCTTTGAGATCGTGTTTCATGGTGCTCAAGAACAAATTCAGGTGGCTGT
GAACGGAAGGCATGTTCTGCTGTACGCCACAGGATCAGCCCGAGCAGATCGACACAGTGGGCATCTAC
GGCAAAGTGAACATCCACTCCATCGGGTTCAGATTCAGCTCGGATTTACAGAGTATGAAACATCTGCTC
TGGGACTGACACAGATAAACAGAGAGAATATACAAAAGCCAGGCAAGCTCCAGCTGAGCCTGCCATTTGA
AGCAAGGTTGAATGCCTCCATGGGTCTGGACGAACCGTTGTCATTAAAGGGGAAGTGAACCAATGCC
CGAAGCTTTAATGTTGACCTAGTGGCAGGAAAAACAAGGGATATCGCTCTGCACTTGAACCCACGCCCTCA
ATGTGAAAGCATTGTGAAGAAATTCCTTCTTCAGGATGCCTGGGAGAAGAGGAGAGAAATATTACCTG
CTTCCCATTAGTTCTGGGATGTACTTTGAGATGATAATCTACTGTGATGTCCGGGAATTCAGGTTGCT
ATAAATGGTGTGCACAGCCTGGAGTACAACACAGATTTAAAGACCTAAGCAGTATTGATACACTATCAG
TCGATGGTGATATCCGTTTGTCTGGATGTAAGGAGCTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204541 representing NM_018886
Red=Cloning site Green=Tags(s)

MLSLNNLQNIYNP IIPYVGTITEQLKPGSLIVIRGHV PKDSERFQVDFQLGNSLKPRADVAFHFNPRFK
 RSSCIVCNTLTQEKGWEEITYDMPFRKEKSFEIVFMVLKNKFQVAVNGRHVLLYAHRISPEQIDTVGIY
 GKVNIHSIGFRFSSDLQSMETSALGLTQINRENIQKPGKQLSLPFEARLNASMGPGRTVVIKGEVNTNA
 RSFNVDLVAGKTRDIALHLNPRNLNVKAFVRNSFLQDAWGEEERNITCFPFSSGMYFEMIIYCDVREFKVA
 INGVHSLEYKHRFKDLSSIDTLSVDGDIRLLDVRSW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9042_h02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018886

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_018886.5](#), [NP_061374.1](#)

RefSeq Size: 2810 bp

RefSeq ORF: 951 bp

Locus ID: 56048

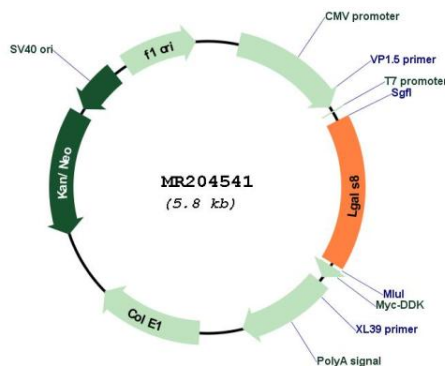
UniProt ID: [Q9JL15](#)

Cytogenetics: 13 4.64 cM

MW: 36.6 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 MR204541