OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR228601

Lgals8 (NM_001291060) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lgals8 (NM_001291060) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lgals8
Synonyms:	1200015E08Rik; AI326142; D13Ertd524e; Lgals-8
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR228601 representing NM_001291060 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCCCTTCAGAAAAGAAAAGTCCTTTGAGATCGTGTTCATGGTGCTCAAGAACAAATTCCAGGTGGCTG TGAACGGAAGGCATGTTCTGCTGTACGCCCACAGGATCAGCCCGGAGCAGATCGACACAGTGGGCATCTA CGGCAAAGTGAACATCCACTCCATCGGGTTCAGATTCAGCTCGGATTTACAGAGTATGGAAACATCTGCT CTGGGACTGACACAGATAAACAGAGAGAATATACAAAAGCCAGGCAAGCTCCAGCTGAGCCTGCCATTTG AAGCAAGGTTGAATGCCTCCATGGGTCCTGGACGAACCGTTGTCATTAAAGGGGAAGTGAACACCAATGC CCGAAGCTTTAATGTTGACCTAGTGGCAGGAAAAACAAGGGATATCGCTCTGCACTTGAACCCACGCCTC AATGTGAAAGCATTTGTAAGAAATTCCTTTCTTCAGGATGCCTGGGGAGAAGAGGAGAGAAATATTACCT GCTTCCCATTTAGTTCTGGGATGTACTTTGAGATGATAATCTACTGTGATGTCCGGGAATTCAAGGTTGC TATAAATGGTGTGCACAGCCTGGAGTACAAACACAGATTTAAAGACCTAAGCAGTATTGATACACTATCA GTCGATGGTGATATCCGTTTGCTGGATGTAAGGAGCTGG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

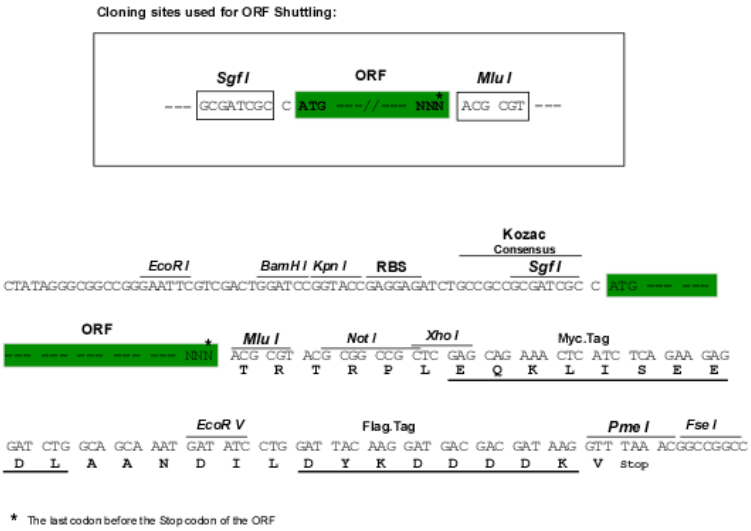
>MR228601 representing NM_001291060
Red=Cloning site Green=Tags(s)

MPFRKEKSFEIVFMVLKNKFQVAVNGRHVLLYAHRISPEQIDTVGIYGKVNIHSIGFRFSSDLQSMETSA
LGLTQINRENIQKPGKLQLSLPFEARLNASMGPGRTVVIKGEVNTNARSFNVDLVAGKTRDIALHLNPRL
NVKAFVRNSFLQDAWGEEERNITCFPFSSGMYFEMIIYCDVREFKVAINGVHSLEYKHRFKDLSSIDTLS
VDGDIRLLDVRSW

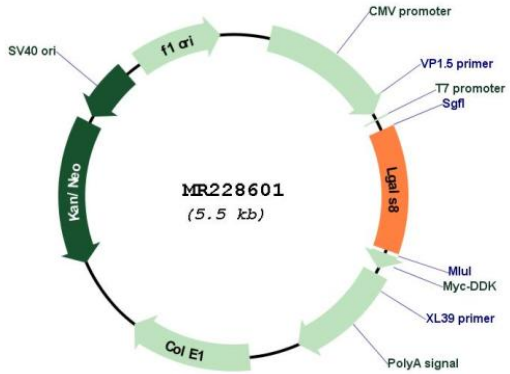
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001291060

ORF Size: 669 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_001291060.1, NP_001277989.1
RefSeq Size:	2664 bp
RefSeq ORF:	672 bp
Locus ID:	56048
Cytogenetics:	13 4.64 cM
MW:	25.9 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 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]