

## Product datasheet for **MG204541**

### Lgals8 (NM\_018886) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lgals8 (NM_018886) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lgals8
Synonyms:	1200015E08Rik; AI326142; D13Ert524e; Lgals-8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204541 representing NM_018886 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTGTCCTTAAATAACCTACAAAATATCATCTATAACCCGATAATCCCCTATGTTGGCACCATTACTG  
AGCAATTGAAGCCTGGCTCTCTGATTGTAATCCGTGGGCATGTCCTAAAGATTCAGAAAGATTCCAGGT  
TGACTTTCAGCTGGGCAACAGCCTGAAGCCAAGAGCAGACGTGGCCTTCCACTTTAACCCCTCGTTCAA  
AGGTCTAGCTGCATTGTTTGAACACACTGACACAGGAGAAGTGGGGCTGGGAGGAGATCACCTACGACA  
TGCCCTTCAGAAAAGAAAAGTCCCTTTGAGATCGTGTTTCATGGTGCTCAAGAACAATTCAGGTGGCTGT  
GAACGGAAGGCATGTTCTGCTGTACGCCACAGGATCAGCCCGAGCAGATCGACACAGTGGGCATCTAC  
GGCAAAGTGAACATCCACTCCATCGGGTTCAGATTCAGCTCGGATTTACAGAGTATGGAACATCTGCTC  
TGGGACTGACACAGATAAACAGAGAGAATATACAAAAGCCAGGCAAGCTCCAGCTGAGCCTGCCATTTGA  
AGCAAGGTTGAATGCCTCCATGGGTCCTGGACGAACCGTTGTCAATAAGGGGAAGTGAACCAATGCC  
CGAAGCTTTAATGTTGACCTAGTGGCAGGAAAAACAAGGATATCGCTCTGCACTTGAACCCACGCCCTCA  
ATGTGAAAGCATTGTAAGAAATTCCTTCTTCAGGATGCCTGGGAGAAGAGGAGAGAAATATTACCTG  
CTTCCCATTAGTTCTGGGATGTACTTTGAGATGATAATCTACTGTGATGCCGGGAATTCAGGTTGCT  
ATAAATGGTGTGCACAGCCTGGAGTACAACACAGATTTAAAGACCTAAGCAGTATTGATACACTATCAG  
TCGATGGTGATATCCGTTTCTGGATGTAAGGAGCTGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204541 representing NM\_018886  
 Red=Cloning site Green=Tags(s)

MLSLNNLQNIYNPPIIPYVGTITEQLKPGSLIVIRGHVPKDSERFQVDFQLGNSLKPRADVAFHFNPRFK  
 RSSCIVCNTLTQEKWGWEIITYDMPFRKEKSFEIVFVMLKNKFQVAVNGRHVLLYAHRISPEQIDTVGIY  
 GKVNIHSIGFRFSSDLQSMETSALGLTQINRENIQKPGKLQLSLPFEARLNASMGPGRTVVIKGEVNTNA  
 RSFNVDLVAGKTRDIALHLNPRNLNVKAFVRNSFLQDAWGEEERNITCFPFSSGMYFEMIIYCDVREFKVA  
 INGVHSLEYKHRFKDLSIDTLSVDGDIRLLDVRSW

TRTRPLE - GFP Tag - V

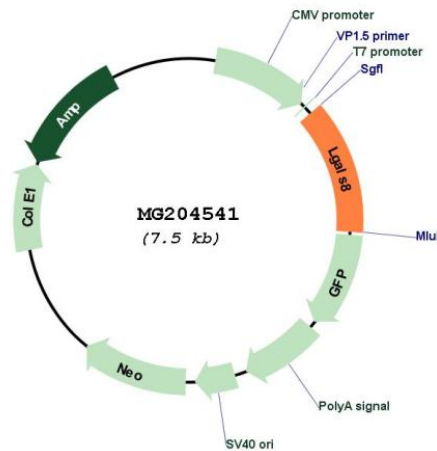
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_018886

**ORF Size:** 948 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_018886.5</a> , <a href="#">NP_061374.1</a>
<b>RefSeq Size:</b>	2810 bp
<b>RefSeq ORF:</b>	951 bp
<b>Locus ID:</b>	56048
<b>UniProt ID:</b>	<a href="#">Q9JL15</a>
<b>Cytogenetics:</b>	13 4.64 cM
<b>Gene Summary:</b>	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 <i>S.typhimurium</i> . 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]