

Product datasheet for **RC209552**

Galectin 2 (LGALS2) (NM_006498) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Galectin 2 (LGALS2) (NM_006498) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: Galectin 2
Synonyms: HL14
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC209552 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGACGGGGAACTTGAGGTTAAGAACATGGACATGAAGCCGGGGTCAACCCTGAAGATCACAGGCAGCA
TCGCCGATGGCACTGATGGCTTTGTAATTAATCTGGCCAGGGGACAGACAAGCTGAACCTGCATTTCAA
CCCTCGTTCAGCGAATCCACCATTGTCTGCAACTCATTGGACGGCAGCAACTGGGGCAAGAACAACGG
GAAGATCACCTGTGCTTCAGCCCAGGGTCAGAGGTCAGTTTACAGTGACCTTTGAGAGTGACAAATTCA
AGGTGAAGCTGCCAGATGGGCACGAGCTGACTTTTCCCAACAGGCTGGGTACAGCCACCTGAGCTACCT
GAGCGTAAGGGCGGGTTCAACATGTCTCTTTCAAGTTAAAAGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC209552 protein sequence
Red=Cloning site Green=Tags(s)
MTGELEVNMDMPGSLKITGSIADGTDGFVINLQGTDKLNLFNPRFSESTIVCNSLDGSNWGQEQR
EDHLCFSPGSEVKFTVTFESDKFKVKLPDGHETFNRLGSHLSYLSVRGGFMSSFKLKE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6354_g03.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_006498

ORF Size: 396 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_006498.3](#)

RefSeq Size: 543 bp

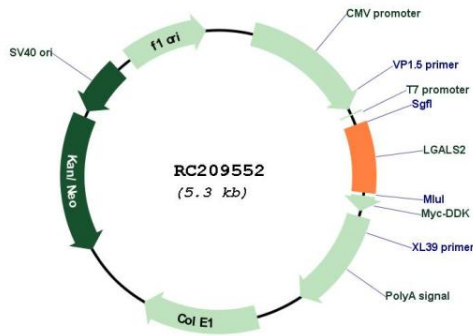
RefSeq ORF: 399 bp

Locus ID: 3957
UniProt ID: [P05162](#)
Cytogenetics: 22q13.1

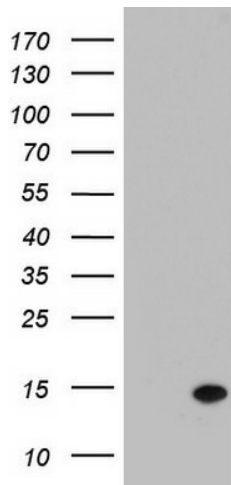
Domains: Gal-bind_lectin
MW: 14.6 kDa

Gene Summary: The protein encoded by this gene is a soluble beta-galactoside binding lectin. The encoded protein is found as a homodimer and can bind to lymphotoxin-alpha. A single nucleotide polymorphism in an intron of this gene can alter the transcriptional level of the protein, with a resultant increased risk of myocardial infarction. [provided by RefSeq, Jul 2008]

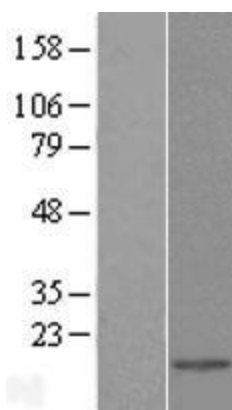
Product images:



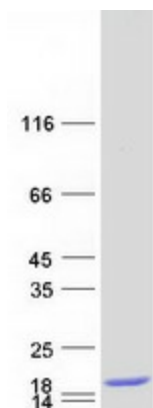
Circular map for RC209552



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY LGALS2 (Cat# RC209552, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-LGALS2(Cat# [TA803291]). Positive lysates [LY416599] (100ug) and [LC416599] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY416599]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209552 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified LGALS2 protein (Cat# [TP309552]). The protein was produced from HEK293T cells transfected with LGALS2 cDNA clone (Cat# RC209552) using MegaTran 2.0 (Cat# [TT210002]).