

Product datasheet for **SC118707**

galectin 9 (LGALS9) (NM_002308) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	galectin 9 (LGALS9) (NM_002308) Human Untagged Clone
Tag:	Tag Free
Symbol:	galectin 9
Synonyms:	HUAT; LGALS9A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_002308 edited
GAATTCGGCACGAGGGAAAGGCAGCGGTGGCCACAGAGCGGCGGAGAGATGGCCTTCAG
CAGTTCACAGGCTCCCTACCTGAGTCCAGCTGTCCCTTTTCTGGGACTATTCAAGGAGG
TCTCCAGGACGGACTTCAGATCACTGTCAATGGGACCGTTCTCAGCTCCAGTGAACCCAG
GTTTGTGTGAACTTTACAGACTGGCTTCAGTGGAAATGACATTGCCTTCCACTTCAACCC
TCGGTTTGAAGATGGAGGGTACGTGGTGTGCAACACGAGGCAGAACGGAAGCTGGGGGCC
CGAGGAGAGGAAGACACACATGCCTTTCCAGAAGGGGATGCCCTTTGACCTCTGCTTCT
GGTGCAGAGCTCAGATTTCAAGGTGATGGTGAACGGGATCCTCTTCGTGCAGTACTTCCA
CCGCGTGCCTTCCACCGTGTGGACACCATCTCCGTCAATGGCTCTGTGCAGCTGCCTA
CATCAGCTTCCAGCTCCCGGCGTGTGGCTGCCAACCCGGCTCCCATTACCCAGACAGT
CATCCACACAGTGCAGAGCGCCCTGGACAGATGTTCTCTACTCCCGCCATCCCACCTAT
GATGTACCCCAACCCGCTATCCGATGCCTTTCATCACCACCATTCTGGGAGGGCTGTA
CCCATCCAAGTCCATCCTCCTGTGAGGCACTGTCTGCCAGTGTCTCAGAGGTTCCACAT
CAACCTGTGCTCTGGGAACACATCGCCTTCCACCTGAACCCCGTTTTGATGAGAATGC
TGTGGTCCGCAACCCAGATCGACAACCTCTGGGGGTCTGAGGAGCGAAGTCTGCCCCG
AAAAATGCCCTTCGTCCGTGGCCAGAGCTTCTCAGTGTGGATCTTGTGTGAAGCTCACTG
CCTCAAGGTGGCCGTGGATGGTCAACACCTGTTTGAATACTACCATCGCCTGAGGAACT
GCCACCATCAACAGACTGGAAGTGGGGGGCGACATCCAGCTGACCCATGTGCAGACATA
GGCGGCTTCTGGCCCTGGGGCCGGGGCTGGGGTGTGGGGCAGTCTGGGTCTCTCATC
ATCCCCACTTCCCAGGCCAGCCTTCCAAACCCTGCCTGGGATCTGGGCTTAAATGCAGA
GGCCATGTCTTGTCTGGTCTGCTTCTGGCTACAGCCACCCTGGAACGGAGAAGGCAGC
TGACGGGGATTGCCTTCTCAGCCGAGCAGCAGCTGGGGCTCCAGCTGTGGAATCCTA
CCATCCCAGGAGGCAGGCACAGCCAGGGAGAGGGGAGGAGTGGGCAGTGAAGATGAAGCC
CCATGCTCAGTCCCTCCATCCCCACGAGCTCCACCCAGTCCCAAGCCACCAGCTG
TCTGCTCCTGGTGGGAGGTGGCCTCCTCAGCCCTCCTCTCTGACCTTAACTCACTCT
CACCTTGACCGTGCACCAACCTTACCCCTCCTGAAAGCAGGCCTGATGGCTTCCCA
CTGGCCTCCACCCTGACCAGAGTGTCTCTTCCAGGGGACTGGCTCCTTCCAGTGTG
CTTAAATAAAGAAATGAAAATGCTTGTGGCAAAAAAAAAAAAAAAAAAACTCGAC
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_002308 unedited
GGTTTCANATTTTGTAAATACGACTTACTATAGGGCGGCCGCGCAATTTCGCACGAGGNAAA
GGCAGCGGTGGCCACAGAGGCGGCGGAGAGATGGCCTTCAGCAGTTCACAGGCTCCCTAC
CTGAGTCCAGCTGTCCCTTTTCTGGGACTATTCAAGGAGGTCTCCAGGACGGACTTCAG
ATCACTGTCAATGGGACCGTTCTCAGCTCCAGTGAACACAGGTTTGTGTGAACTTTCAG
ACTGGCTTCAGTGGAAATGACATTGCCTTCCACTTCAACCCTCGGTTTGAAGATGGAGGG
TACGTGGTGTGCAACACGAGGCAGAACGGAAGCTGGGGGCCGAGGAGAGGAAGACACAC
ATGCCTTTCCAGAAGGGGATGCCCTTTGACCTCTGCTTCTGGTGCAGAGCTCAGATTTT
AAGGTGATGGTGAACGGGATCCTCTTCGTGCAGTACTTCCACCGGTGCCCTTCCACCGT
GTGGACACCATCTCCGTCAATGGCTCTGTGCAGCTGTCTACATCAGCTTCCAGCCTCCC
GGCGTGTGGCCTGCCAACCCGGCTCCCATTACCCAGACAGTATCCACACAGTGCAGAGC
GCCCTGGACAGATGTTCTACTCCCGCCATCCCACCTATGATGTACCCCAACCCCGCC
TATCCGATGCCTTTCATCACCACCATTCTGGGAGGGCTGTACCCATCCAAGTCCATCCTC
CTGTGANGCACTGTCTGCCAGTGTCTCAGAGGTTCCACATAAACCTGTGCTCTGGGAAC
CACATNGCCTTNCACCTGNACCCCGTTTTGATGAAGATGCTGTTGTCCCGCACACCCAG
ATCGACAACCTCTGGGGTCTGAAGAACGAAGTCTGCCCGAAAATGCCCTTCGTCCGT
GGCCAGACTTCTCAGTGTGGATCTTTG
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_002308 unedited TGACCGCGGCCGAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTGGCAACAAGCATT CATTCTTTATTTAAGGACACTGGNGAAAGGAGCCAGTCCCCTGAAGAGAACACTCTGG TCAGGTGGTGGAGGCCAGTGGGAAGCCATCAGGCCTGCTTCCAGGAGGGGTGAAGGGTT GGTGCACGGTGAAGGTGAGAGTGAGGTTAAAGGTCAGAGAGGAGGGCTGAGGAGGCCA CCTCCCACCAGGAGCAGACAGCTGGTGGCTTGGGACTGGGGTGGAGCTGCGTGGGGGATG GGAGGGGACTGAGCATGGGGCTTCATCTTCACTGCCACTCCTCCCCTCTCCCTGGCTGT GCCTGCCTCCTGGGATGGTAGGATTCCAGCAGCTGGAGCCCAGGTGCTGCTGCGGCTGA GGAAGGCAATCCCGTCACTGCTGCTTCCGTTCCAGGGTGGCTGTAGCCAGAAGCAGGA CCAGACAAGGACATGGCCTCTGCATTAAGCCCAGATCCCAGGCAGGGTTGAAAGGCTG GGCCTGGGAAGTGGGGATGATGAGAGGACCCANACTGCCCCACACCCAGCCCCGGCCC CAGGGCCAGGAAGCCGCTATGTCTGCACATGGGTGAGTGGATGTCGCCCCCACTTCC AGTCTGTTGATGGTGGGAGGTTCTCAGGCGATGGTAGTATTCAAACAGGTGCTGACCA TCCACGGCCACCTTNGAGCAGTGAGCTTACACAAGATCCACTGAGAAGCTCTGGCCA CGGACGAAGGGCATTTCGGGGCAGACTTCGCTTCTCAGACCCCCAGNAGTGTGAT CTTGGTGTGCCGACCACAGCATTCTCATCAAACGGGGTTTCAGGTGGAAGGCGATGT TGTTCCACACN
Restriction Sites:	NotI-NotI
ACCN:	NM_002308
Insert Size:	1700 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.
	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
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:	<ol style="list-style-type: none"> 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_002308.2 , NP_002299.1
RefSeq Size:	1620 bp

RefSeq ORF: 972 bp

Locus ID: 3965

UniProt ID: [O00182](#)

Cytogenetics: 17q11.2

Domains: Gal-bind_lectin

Gene Summary: The galectins are a family of beta-galactoside-binding proteins implicated in modulating cell-cell and cell-matrix interactions. The protein encoded by this gene is an S-type lectin. It is overexpressed in Hodgkin's disease tissue and might participate in the interaction between the H&RS cells with their surrounding cells and might thus play a role in the pathogenesis of this disease and/or its associated immunodeficiency. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (2) is lacking an internal, in-frame coding exon compared to variant 1, resulting in a shorter isoform (short) missing a 32 aa protein segment compared to isoform long.