

Product datasheet for **RG204918**

LGALS3BP (NM_005567) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LGALS3BP (NM_005567) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LGALS3BP
Synonyms:	90K; BTBD17B; CyCAP; gp90; M2BP; MAC-2-BP; TANGO10B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG204918 representing NM_005567
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCCCTCGAGGCTCTTCTGGGTGTGGCTGCTGGTTGCAGGAACCCAAGCGTGAACGATGGTGACA
 TGGCGCTGGCCGATGGGGCGCCACCAACCAGGGCCGCTGGAGATCTTCTACAGAGGCCAGTGGGGCAC
 TGTGTGTGACAACCTGTGGGACCTGACTGATGCCAGCGTCGTCTGCCGGGCCCTGGGCTTCGAGAACGCC
 ACCCAGGCTCTGGGCAGAGCTGCCTTCGGGCAAGGATCAGGCCCATCATGCTGGACGAGGTCCAGTGCA
 CGGGAACCGAGGCCTCACTGGCCGACTGCAAGTCCCTGGGCTGGCTGAAGAGCAACTGCAGGCACGAGAG
 AGACGCTGGTGTGGTCTGCACCAATGAAACCAGGAGCACCCACACCCTGGACCTCCTCAGGGAGCTCTCG
 GAGGCCCTTGGCCAGATCTTGGACGCCAGCGGGCTGCGACCTGTCCATCAGCGTGAATGTGCAGGGCG
 AGGACGCCCTGGGCTTCTGTGGCCACACGGTATCCTGACTGCCAACCTGGAGGCCAGGCCCTGTGGAA
 GGAGCCGGGCAGCAATGTACCATGAGTGTGGATGCTGAGTGTGTGCCCATGGTCAAGGACCTTCTCAGG
 TACTTCTACTCCCGAAGGATTGACATCACCTGTGCTCAGTCAAGTGCTCCACAAGCTGGCCTCTGCCT
 ATGGGGCCAGGACGCTGCAGGGCTACTGCGCAAGCCTCTTTGCCATCCTCCTCCCCAGGACCCCTCGTT
 CCAGATGCCCTGGACCTGTATGCCTATGCAGTGGCCACAGGGGACGCCCTGCTGGAGAAGCTCTGCCTA
 CAGTTCCTGGCCTGGAACCTCGAGGCCTGACGCAGGCCGAGGCCCTGGCCAGTGTCCCCACAGACCTGC
 TCCAACCTGCTGCTGCCAGGAGCGACCTGGCGGTGCCAGCGAGCTGGCCCTACTGAAGGCCGTGGACAC
 CTGGAGCTGGGGGAGCGTGCCTCCCATGAGGAGGTGGAGGGCTTGGTGGAGAAGATCCGCTTCCCCATG
 ATGCTCCCTGAGGAGCTCTTGGAGCTGCAGTTCAACCTGTCCCTGTACTGGAGCCACGAGGCCCTGTTC
 AGAAGAAGACTCTGCAGGCCCTGGAATCCACACTGTGCCCTTCCAGTTGCTGGCCCGGTACAAAGGCCT
 GAACCTCACCGAGGATACCTACAAGCCCGGATTTACACCTCGCCACCTGGAGTGCCTTTGTGACAGAC
 AGTTCTGGAGTGCACGGAAGTCACTCAACTGGTCTATCAGTCCAGACGGGGCCTTTGGTCAATATTCTT
 CTGATTACTTCCAAGCCCTCTGACTACAGATACTACCCTACCAGTCTTCCAGACTCCACAACACCC
 CAGCTTCTCTCCAGGACAAGAGGGTGTCTGGTCCCTGGTCTACCTCCCCACCATCCAGAGCTGCTGG
 AACTACGGCTTCTCTGCTCCTCGGACGAGCTCCCTGTCTGGGCTCACCAAGTCTGGCGGCTCAGATC
 GCACCATGCTACGAAAACAAGCCCTGATGCTCTGCGAAGGGCTTCTCGTGGCAGACGTCACCGATTT
 CGAGGGCTGGAAGGCTGCGATTTCCAGTGCCTGGACCAACAGCTCGAAGAGCACCTCCTCCTCCCC
 TGCCCGCAGGGCACTTCAACGGCTTCCGCACGGTATCCGCCCTTCTACCTGACCAACTCCTCAGGTG
 TGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG204918 representing NM_005567
 Red=Cloning site Green=Tags(s)

MTPPRLFWWLLVAGTQGVNDGDMRLADGGATNQGRVEIFYRQWGTVCNDLWDLTASVVCRALGFENA
 TQALGRAAFGQSGPIMLDEVQCTGTEASLADCKSLGWLKSNCRHERDAGVVCTNETRSTHTLDLSRELS
 EALGQIFDSQRGCDLSISVNVQGEDALGFCGHVIL TANLEAQUALWKEPGSNVTMSVDAECVPMVRDLLR
 YFYSRRIDITLSSVKCFHKLASAYGARQLQGYCASLFAILLPQDPSFQMPLDLYAYAVATGDALLEKLC
 QFLAWNFEALQAEAWPSVPTDLLQLLLPRSDLAVPSELALLKAVDTWSWGERASHEEVEGLVEKIRFPM
 MLPEELFELQFNLSLYSHEALFQKKTLLQALEFHTVPFQLLARYKGLNLTEDTYKPRIYTSPTWSAFVTD
 SWSARKSQLVYQSRRGPLVKYSSDYFQAPSDYRYPYQSFQTPQHPFSLFQDKRVSWSLVYLPTIQSCW
 NYGFCSSSDEL PVLGLTKSGGSDRTIAYENKALMLCEGLFVADVTDFEGWKAIPALDNTSSKSTSSFP
 CPAGHFNFRTVIRPFYLTNSSGVD

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_005567

ORF Size: 1755 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

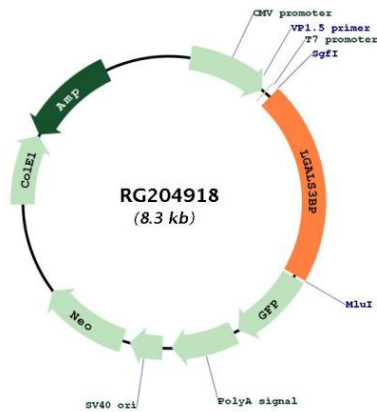
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_005567.2, NP_005558.1](#)
RefSeq Size: 2254 bp
RefSeq ORF: 1758 bp
Locus ID: 3959
UniProt ID: [Q08380](#)
Cytogenetics: 17q25.3
Domains: SR
Protein Families: Druggable Genome, Secreted Protein
Gene Summary:

The galectins are a family of beta-galactoside-binding proteins implicated in modulating cell-cell and cell-matrix interactions. LGALS3BP has been found elevated in the serum of patients with cancer and in those infected by the human immunodeficiency virus (HIV). It appears to be implicated in immune response associated with natural killer (NK) and lymphokine-activated killer (LAK) cell cytotoxicity. Using fluorescence in situ hybridization the full length 90K cDNA has been localized to chromosome 17q25. The native protein binds specifically to a human macrophage-associated lectin known as Mac-2 and also binds galectin 1. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG204918