

## Product datasheet for **SC128088**

### LGALS3BP (NM\_005567) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LGALS3BP (NM_005567) Human Untagged Clone
Tag:	Tag Free
Symbol:	LGALS3BP
Synonyms:	90K; BTBD17B; CyCAP; gp90; M2BP; MAC-2-BP; TANGO10B
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC128088 sequence for NM\_005567 edited (data generated by NextGen Sequencing)

```
ATGACCCCTCCGAGGCTCTTCTGGGTGTGGCTGCTGGTTGCAGGAACCAAGGCGTGAAC
GATGGTGACATGCGGCTGGCCGATGGGGGCGCCACCAACCAGGGCCGCTGGAGATCTTC
TACAGAGGCCAGTGGGGCACTGTGTGACAACCTGTGGACCTGACTGATGCCAGCGTC
GTCTGCCGGGCCCTGGGCTTCGAGAACGCCACCCAGGCTCTGGGCAGAGCTGCCTTCGGG
CAAGGATCAGGCCCATCATGCTGGAYGAGGTCCAGTGCACGGGAACCGAGGCCTCACTG
GCCGACTGCAAGTCCCTGGGCTGGCTGAAGAGCAACTGCAGGCACGAGAGAGACGCTGGT
GTGGTCTGCACCAATGAAACCAGGAGCACCCACACCCTGGACCTCTCCAGGGAGCTCTCG
GAGGCCCTTGGCCAGATCTTTGACAGCCAGCGGGGCTGCGACCTGTCCATCAGCGTGAAT
GTGCAGGGCGAGGACGCCCTGGGCTTCTGTGGCCACACGGTCATCCTGACTGCCAACCTG
GAGGCCAGGCCCTGTGGAAGGAGCCGGGCAGCAATGTCACCATGAGTGTGGATGCTGAG
TGTGTGCCATGGTCAGGGACCTTCTCAGTACTTCTACTCCCGAAGGATTGACATCACC
CTGTGTCAGTCAAGTGCTTCCACAAGCTGGCCTCTGCCTATGGGGCCAGGCAGTGCAG
GGCTACTGCGCAAGCCTCTTTGCCATCCTCTCCCCAGGACCCCTCGTTCAGATGCC
CTGGACCTGTATGCCTATGCAGTGGCCACAGGGGACGCCCTGCTGGAGAAGCTCTGCCTA
CAGTTCCTGGCCTGGAACCTTCGAGGCCCTTGACGAGGCCGAGGCCTGGCCAGTGTCCCC
ACAGACCTGCTCCAAGTCTGCTGCCAGGAGCGACCTGGCGGTGCCAGCGAGCTGGCC
CTACTGAAGGCCGTGGACACCTGGAGCTGGGGGGAGCGTGCCTCCCATGAGGAGGTGGAG
GGCTTGGTGGAGAAGATCCGCTTCCCCATGATGCTCCCTGAGGAGCTCTTTGAGCTGCAG
TTCAACCTGTCCCTGACTGGAGCCACGAGGCCCTGTTCCAGAAGAAGACTCTGCAGGCC
CTGGAATTCACACTGTGCCCTCCAGTTGCTGGCCCGGTACAAAGGCCCTGAACCTCACC
GAGGATACCTACAAGCCCCGATTTACACCTCGCCACCTGGAGTGCCTTTGTGACAGAC
AGTTCCTGGAGTGCACGGAAGTCACAACCTGGTCTATCAGTCCAGACGGGGCCTTTGGTC
AAATATTCTTCTGATTACTTCCAAGCCCCCTCTGACTACAGATACTACCCCTACCAGTCC
TTCCAGACTCCACAACACCCAGCTTCTCTTCCAGGACAAGAGGGTGTCTGGTCCCTG
GTCTACCTCCCCACCATCCAGAGCTGCTGGAACCTACGGCTTCTCCTGCTCCTCGGACGAG
CTCCCTGTCTGGGCCTCACCAAGTCTGGCGGCTCAGATCGCACCATTGCCTACGAAAAC
AAAGCCCTGATGCTCTGCGAAGGGCTCTTCGTGGCAGACGTCACCGATTCGAGGGCTGG
AAGGCTGCGATTCCAGTGCCCTGGACACCAACAGCTCGAAGAGCACCTCCTCCTCCCC
TGCCCGCAGGGCACTTCAACGGCTTCCGCACGGTCATCCGCCCTTCTACCTGACCAAC
TCCTCAGGTGTGGACTAG
```

Clone variation with respect to NM\_005567.3  
267 t=>y

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_005567 unedited  
 NTGTTACATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACCAGGCTCCATAC  
 TGGGAGAGGCTTCTGGGTCAAAGGACCAGTCTGCAGAGGGATCCTGTGGCTGGAAGCGAG  
 GAGGCTCCACACGGCCGTTGCAGCTACCGCAGCCAGGATCTGGGCATCCAGGCACGGCCA  
 TGACCCCTCCGAGGCTCTTCTGGGTGTGGCTGCTGGTTGCAGGAACCAAGGCGTGAACG  
 ATGGTGACATGCGGCTGGCCGATGGGGGCGCCACCAACCAGGGCCGCGTGGAGATCTTCT  
 ACAGAGGCCAGTGGGGCACTGTGTGTGACAACCTGTGGGACCTGACTGATGCCAGCGTCG  
 TCTGCCGGGCCCTGGGCTTCGAGAACGCCACCCAGGCTCTGGGCAGAGCTGCCTTCGGGC  
 AAGGATCAGGCCCATCATGCTGGATGAGTCCAGTGCACGGGAACCGAGGCCTCACTGG  
 CCGACTGCAAGTCCCTGGGCTGGCTGAAGAGCAACTGCAGGCACGAGAGAGACGCTGGT  
 TGGTCTGCACCAATGAAACCAGGAGCACCCACACCCTGGACCTCTCCAGGGAGCTCTCGG  
 AGGCCCTTGCCAGATCTTTGACAGCCAGCGGGGCTGCGACCTGTCCATCAGCGTGAATG  
 TGCAGGGCGAGGACGCCCTGNGCTTCTGTGGCCACACGGTCATCCTGACTGCCAACCTGG  
 AGGCCCAGGCCCTGTGGAAGGAGCCGGGCAGCAATGTCACCATGAGTGTGGNATGCTGAG  
 TGTGTGCCATGGTCAGGNACCTTCTCANGTACTTCTACTNCCGAAGGATTGACATCACC  
 CCTGTCTCAGTCAAGTGCCTCCACAAGCTGGNCTCTGCCTATGGGGCCAGGCAGCTGCA  
 GGGCTACTGCGCAAGCCTCTTGCATNCTNCTNCAAGNACCCNTCGNTNCAAGTGCCTT  
 G

**3' Read Nucleotide Sequence:**

>OriGene 3' genomic read for NM\_005567 unedited  
 NNTTTGCTATGGACGCGCCGAATCTATGATCGAGTTTTTTTTTTTTTTTTTTTTAGGA  
 ACCTCAATGTAATTTTAATGACCTCAGACCAGTGACAAGGGCAGACTGACCAGGGGCTGT  
 GGGGGGATCCCAGAGCAACCTCGAGGGCTCCTGGTGTTACCACCTGGAACCTGGTGAG  
 GTGGTGGGAGAACTCCTGGTGGACCTAGTGGAAGCCTTCCAGTAATTTCTTGAAGCTGA  
 GCGCTCAGGTGAGTAGGGCGACATCTGGTGGCCGGTGTGTTGAAGGTCATTGCAGAGAGGA  
 AGGAAGCCGAGGAGGGGAGCCTGCAGTGAAGGCGTCTGGGGTCTCCGGTTCTCACCAC  
 CCTTGGGCCACGCCGTCTAGTCCACACCTGAGGAGTTGGTCAGGTAGAAGGGGCGGATGA  
 CCGTGCGGAAGCCGTTGAAGTGCCTGCCGGCAGGGGAAGGAGGAGGTGCTCTTCGAGC  
 TGTGGTGTCCAGGGCACTGGGAATCGCAGCCTTCCAGCCCTCGAAATCGGTGACGTCTG  
 CCACGAAGAGCCCTTCGAGAGCATCAGGGCTTTGTTTTCGTAGGCAATGGTGCGATCTG  
 AGCCGCCAGACTTGGTGAGGCCCCAGGACAGGGAGCTCGTCCGAGGAGCAGGAGAAGCCGT  
 AGTTCCAGCAGCTCTGGATGGTGGGGAGGTAGACCAGGGACCAGGACACCCTCTGTGCC  
 TGGAAAAGGAGCTGGGGTGTGTGGAGTCTGGAAGGACTGGTAGGGGTAGTATCTGTAGT  
 CAGAAGGGGCTTGGAAAGTATCAGAAGATTTTGACAAAGGCCCCCGTCTGGACTGATA  
 AACCAAGTGTGACTTCCGTGCACCTCCAGGAACTGTCTGTACAAAGCACTTCCAGTGGGC  
 CAGGTGTA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_005567

**Insert Size:**

2500 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](mailto: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:**

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]