

## Product datasheet for **SC118073**

### TGF beta Receptor III (TGFB3) (NM\_003243) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TGF beta Receptor III (TGFB3) (NM_003243) Human Untagged Clone
Tag:	Tag Free
Symbol:	TGF beta Receptor III
Synonyms:	betaglycan; BGCAN
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 SC118073 sequence for NM\_003243 edited (data generated by NextGen Sequencing)

```
ATGACTTCCCATTATGTGATTGCCATCTTTGCCCTGATGAGTCCTGTTTAGCCACTGCA
GGTCCAGAGCCTGGTGCCTGTGTGAACGTACCTGTCAAGTGCCTCCCATCCTGTCCAG
GCCTTGATGGAGAGCTTCACTGTTTTGTCAGGCTGTGCCAGCAGAGGCACAACCTGGGCTG
CCACAGGAGGTGCATGTCTGAATCTCCGCACTGCAGGCCAGGGGCTGGCCAGCTACAG
AGAGAGGTCACACTTACCTGAATCCCATCTCCTCAGTCCACATCCACCACAAGTCTGTT
GTGTTCTGCTCAACTCCCCACACCCCCTGGTGTGGCATCTGAAGACAGAGAGACTTGCC
ACTGGGGTCTCCAGACTGTTTTTGGTGTCTGAGGGTTCTGTGGTCCAGTTTTTCATCAGCA
AACTTCTCCTTGACAGCAGAAACAGAAGAAAGAACTTCCCCATGGAAATGAACATCTG
TTAAATTGGGCCGAAAAGAGTATGGAGCAGTTACTTCAATCACCGAACTCAAGATAGCA
AGAAACATTTATATTAAGTGGGGGAAGATCAAGTGTCCCTCCAAAGTGAACATAGGG
AAGAATTTTCTCACTCAATTACCTTGCTGAGTACCTTCAACCCAAAGCAGCAGAAGGG
TGTGTGATGTCCAGCCAGCCCAGAATGAGGAAGTACACATCATCGAGCTAATCACCCCC
AACTCTAACCCCTACAGTCTTTCCAGGTGGATATAACAATTGATATAAGACCTTCTCAA
GAGGATCTGAAGTGGTCAAAAATCTCCTCCTGATCTTGAAGTGCAAAAAGTCTGTCAAC
TGGGTGATCAAATCTTTTGTGTTAAGGGAAGCCTGAAAATTATTGCTCCTAACAGTATT
GGCTTTGGAAAAGAGAGTGAAGATCTATGACAATGACCAATCAATAAGAGATGACATT
CCTTCAACCCAAGGGAATCTGGTGAAGTGGGCTTTGGACAATGGCTATAGTCCAATAACT
TCATACACAATGGCTCCTGTGGCTAATAGATTTTCATCTTCGGCTTGAAAATAATGCAGAG
GAGATGGGAGATGAGGAAGTCCACTATTCTCCTGAGTACGGATCCTGCTGGACCCT
GGTCCCTGCCTGCCCTGCAGAACCGCCCATCCGGGGAGGGGAAGGCCAAAATGGAGGC
CTTCCGTTTCTTTCCAGATATTTCCAGGAGAGTCTGGAATGAAGAGGGAGAAGATGGG
CTCCCTCGGCCAAAGGACCTGTCAATCCAGCATACAACCTGTTTCTGCTCAGAGAG
CCAGAAGAGGTGAAGGGAGCGTGGATATTGCCCTGTCTGCAAATGTGACAATGAGAAG
ATGATCGTGGCTGTAGAAAAAGATTCTTTTCAGGCCAGTGGCTACTCGGGATGGACGTC
ACCCTGTTGGATCCTACCTGCAAGGCCAAGATGAATGGCACACACTTTGTTTTGGAGTCT
CCTCTGAATGGCTGCGGTACTCGGCCCGGTGGTCAAGCCTTGTGGTGTGGTCTACTAT
AACTCCATTGTGATACAGGTTCCAGCCCTTGGGGACAGTGTGGTGGCCAGATGGTTAT
GAAGATCTGGAGTCAAGTGAATGGATTTCCGGGAGATATGGATGAAGGAGATGCTTCC
CTGTTACCCGACCTGAAATCGTGGTGTAAATTGCAGCCTTCAAGGAGTATACAACACT
AGCAGCTTCCAGAACAGCCCCACGGAAACATCACCTTCAACATGGAGCTATACAACACT
GACCTCTTTTTGGTGCCTCCCAGGGCGTCTTCTCTGTGCCAGAGAATGGACACGTTTAT
GTTGAGGTATCTGTTACTAAGGCTGAACAAGAAGTGGGATTTGCCATCCAACAGTCTTT
ATCTCTCCATATTCGAACCCTGATAGGATGTCTCATTACACCATATTGAGAATATTTGT
CCTAAAGATGAATCTGTGAAATTTACAGTCCCAAGAGAGTGCATTTCTATCCCGCAA
GCTGACATGGATAAGAAGCGATTACGCTTTGTCTTCAAGCCTGTCTTCAACACCTCACTG
CCTAAGTGTGTGCTCCTGACGAAGCCTGCACCTCGCTGGACGCCTCGATAATCTGGGCC
ATGATGCAGAATAAGAAGACGTTCACTAAGCCCCTTGTGTGATCCACCATGAAGCAGAA
TCTAAAGAAAAAGGTCCAAGCATGAAGGAACCAATCCAATTTCTCCACCAATTTTCCAT
GGTCTGGACACCCTAACCGTGTGGCATTGCGTTTGCAGCCTTTGTGATCGGAGCACTC
CTGACGGGGGCTTGTGGTACATCTATTCTCACACAGGGGAGACAGCAGGAAGGCAGCAA
GTCCCCACCTCCCCGCCAGCCTCGGAAACAGCAGTGTGCCACAGCATCGGCAGCAGC
CAGAGCACGCCTTGCTCCAGCAGCAGCACGGCCTAG
```

Clone variation with respect to NM\_003243.4

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_003243 unedited  
 GCTTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGCACGAGGGTGAAGGAGGGCA  
 GTCGGCGGCTCTCGCGCCCCGGCCACTTCCCTGCGCGATTCCCGGAGCTCCCTGCAGGA  
 GGTGAGAGTCCCCAGCGGGTCCGGATGGCGTAGTTTTGCCGCGGCGCAGCAGCTGCCGGA  
 GCTCGCCGCCCGCAGCGCTGGGCGGGGAACTTGCCGCCGCTTCTCCAATTGCTGC  
 GGGTGGATCTCCGCTGGACACCCGCTCCGAGGCAGTTTGAAAATTGCAAGGAGGGACT  
 TTAAGACTACTTCTGATTTGCAAAGATTGTCTGTGCTCTGAGCAGGCTGAAGTACTGGA  
 CGAGACGCACTGTTGGAGAAAATAAAAATGACTTCCCATATGTGATTGCCATCTTTGCC  
 TGATGAGCTCCTGTTTAGCCACTGCAGGTCCAGAGCCTGGTGCAGTGTGTGAAGTGCAC  
 CTGTCACTGCTCCCATCCTGTCCAGGCCTTGATGGAGAGCTTCACTGTTTTGTCAGGCT  
 GTGCCAGCAGAGGCACAAGTGGGCTGCCACAGGAGGTGCATGCTCTGAATCTCCGCACTG  
 CAGGCCAGGGGCTGGCCAGCTACAGAGAGAGGTACACTTCACTGAATCCCATCTCTCT  
 CAGTCCACATCCACCACAAGTCTGTTGTGGTCTGCTCAACTCCCCCACCCCTGGTGT  
 GGCATCTGTAGACAGAGAGACTCGCCACTGNGGTCTCCAGACTGTTTTTGGTGTCTGAAG  
 GTTCTGTGGTCCAGTTTTATCAACAACTTCTCCTTGGCAGCCGAACAGAAAGAAAGG  
 AACTTCCCCCATGAAAAGAACATCTGGTACATTGGGCCGAAAAGAGTTGGAGCCGGTACC  
 CCATTCACCGCACTTCAGAATGCCGAACACTTTTATTAAGTGGGGGAAGATCAG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_003243 unedited  
 CCCCCTTCTGTGNACCGCGCCGCTTTCTANGATCGAGTTTTTTTTTTTTTTTTTTAAAC  
 AGGAGGTATCACTGAGCTTATTTTAGTTGCAAAGTGGCATCATATTATCCATTTAATGA  
 AATTCACCTCAAGCCCTTTTGGACATATTAATATATGGGATATTTAAGGCAAGAGAA  
 GTAAGGCAATCCAAATGAGTGCCCTTTTCCAATCTCAGCACTGTCTTGGTGAATTGGTG  
 ACACTATTCAGATAACCAACTGGAGACCGACAGGATTTGCCATGCATTTGCATCTTGCTA  
 GAGTTTGGTTTTATGAAAGGGCCTATTTTTTTTTTAAGTTGACATATTTGAGTGGAAC  
 ACTCACCTACCAAAATACTTAAGTTGCAACTCTAAAAGCATAAGGACATTTTCAAATT  
 TTCTCTTCTTCACTGAGAAAATGAATGTGCCAGGTGACATATTATACTTGTACTTGC  
 ATACACATAGAAATATCACTGTGCAAATTCGTCCTTGACTTTATAACTGAATTTCAAC  
 TCAAATTTACATTAATTTGCAGAACAAAATATTAGGAATGGGCACAAATCTGTGGTTCC  
 TGATTTTGGTCATTTTCAATTTCTGTAGGCCTGTAAGAAATACAAAATTTGCATTAAGAC  
 ATTTTGCAGTGGTGTATGCAAGTATGGGAAGAAACAGGAAGCTGATAAGGTCATCAGCAT  
 TGGTTTTGGCCCCAGGCAAGAAAGAATGTTGCCTTAACACTTGTGAGGTGCAGTCCC  
 TGAGGGCAGCACCCATCAAGGGACACATCAGACCCACAGGTTGTGGCAGCAAGTCCAG  
 AATGTGCATCCAGACAAAGGTGCCAATTANACAGGAGGATCGCTTAGNAAGCCTCAAAGC  
 ATT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_003243

**Insert Size:**

4470 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_003243.2](#), [NP\\_003234.2](#)

**RefSeq Size:** 4199 bp

**RefSeq ORF:** 2556 bp

**Locus ID:** 7049

**UniProt ID:** [Q03167](#)

**Cytogenetics:** 1p22.1

**Domains:** zona\_pellucida

**Protein Families:** Druggable Genome, Secreted Protein, Transmembrane

**Gene Summary:** This locus encodes the transforming growth factor (TGF)-beta type III receptor. The encoded receptor is a membrane proteoglycan that often functions as a co-receptor with other TGF-beta receptor superfamily members. Ectodomain shedding produces soluble TGFB3, which may inhibit TGFβ signaling. Decreased expression of this receptor has been observed in various cancers. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene.[provided by RefSeq, Sep 2010]

Transcript Variant: This variant (1) encodes the longer isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.