

Product datasheet for **RG216595**

TGF beta Receptor III (TGFBR3) (NM_003243) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TGF beta Receptor III (TGFBR3) (NM_003243) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TGF beta Receptor III
Synonyms:	betaglycan; BGCAN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG216595 representing NM_003243
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACTTCCCATTATGTGATTGCCATCTTTGCCCTGATGAGCTCCTGTTTAGCCACTGCAGGTCCAGAGC
 CTGGTGCCTGTGGAAGTGTACCTGTGAGTGCCTCCCATCCTGTCCAGGCCTTGATGGAGAGCTTAC
 TGTTTTGTGAGGCTGTGCCAGCAGAGGCACAACCTGGGCTGCCACAGGAGGTGCATGTCCTGAATCTCCGC
 ACTGCGGGCCAGGGCCCTGGCCAGCTACAGAGAGAGGTACACCTTCACTGAATCCCATCTCCTCAGTCC
 ACATCCACCACAAGTCTGTTGTGTTCTGCTCACTCCACACCCCTGGTGTGGCATCTGAAGACAGA
 GAGACTTGCCTGCGGCTCCAGACTGTTTTGGTGTCTGAGGGTCTGTGGTCCAGTTTTATCAGCA
 AACTTCTCCTTGACAGCAGAAACAGAAGAAAGAACTCCCCCATGGAAATGAACATCTGTTAAATTGGG
 CCCGAAAAGAGTATGGAGCAGTTACTTCATTACCGAACTCAAGATAGCAAGAAACATTTATATTAAGT
 GGGGGAAGATCAAGTGTCCCTCAAAGTGAACATAGGGAAGAATTTCTCTCACTCAATTACCTTGCT
 GAGTACCTTCAACCCAAAGCAGCAGAAGGGTGTGTGATGTCCAGCCAGCCCAAGATGAGGAAGTACACA
 TCATCGAGCTAATCACCCCAACTTAACCCCTACAGTGTCTTCCAGGTGGATATAACAATTGATATAAG
 ACCTTCTCAAGAGGATCTTGAAGTGGTCAAAAATCTATCCTGATCTTGAAGTGCAAAAGTCTGTCAAC
 TGGGTGATCAAATCTTTTGATGTTAAGGGAAGCCTGAAAATATTGCTCCTAACAGTATTGGCTTTGGAA
 AAGAGAGTGAAAGATCTATGACAATGACCAATCAATAAGAGATGACATTCCTTCAACCCAAAGGGAATCT
 GGTGAAGTGGGCTTTGGACAATGGCTATAGTCCAATAACTTACACAAATGGCTCCTGTGGCTAATAGA
 TTTTATCTTCCGCTTGAATAATGCAGAGGAGATGGGAGATGAGGAAGTCCACACTATTCCTCCTGAGC
 TACGGATCCTGCTGGACCTGGTCCCTGCCTGCCAGACCCGCCATCCGGGGAGGGGAAGGCCA
 AAATGGAGGCCTTCCGTTTCTTCCAGATATTTCCAGGAGAGTCTGGAATGAAGAGGGAGAAGATGGG
 CTCCTCAGCCAAAGGACCTGTCAATCCAGCATAACAATGTTTCTGCTCAGAGAGCCAGAAGAGG
 TGCAAGGGAGCGTGGATATTGCCCTGTCTGCAATGTGACAATGAGAAGATGATCGTGGCTGTAGAAAA
 AGATTCTTTTCCAGCCAGTGGCTACTCGGGGATGGACGTACCCTGTTGGATCCTACCTGCAAGGCCAAG
 ATGAATGGCACACACTTTGTTTGGAGTCTCCTCTGAATGGTGCAGTACTCGGCCCGGTGGTCCAGCCC
 TTGATGGTGTGGTCTACTATAACTCCATTGTGATACAGGTTCCAGCCCTTGGGGACAGTAGTGGTTGGCC
 AGATGGTTATGAAGATCTGGAGTCAAGTATAATGGATTCCGGGAGATATGGATGAAGGAGATGCTTCC
 CTGTTACCCGACCTGAAATCGTGGTGTAAATTGCAGCCTTCCAGGAGTGGGAACCCAGCAGCTTCC
 AGGAACAGCCCAAGGAAACATCACCTTCAACATGGAGCTATACAACACTGACCTTTTTTGGTGCCTC
 CCAGGGCGTCTTCTGTGCCAGAGAATGGACAGTTTATGTTGAGGTATCTGTTACTAAGGCTGAACAA
 GAAGTGGGATTTGCCATCCAAACGTGCTTTATCTCCTCATATTGCAACCTGATAGGATGTCTCATTACA
 CCATTATTGAGAAATTTGTCCTAAAGATGAATCTGTGAAATCTACAGTCCCAAGAGAGTGCACCTCCC
 TATCCCGCAAGCTGACATGGATAAGAAGCGATTACGCTTTGTCTCAAGCCTGTCTTCAACACCTCACTG
 CTCTTTTACAGTGTGAGCTGACGCTGTGTACGAAGATGGAGAAGCACCCCAAGTGGCTAAGTGTG
 TGCCCTCTGACGAAGCCTGCACCTCGCTGGACGCTCGATAATCTGGGCCATGATGCAGAATAAGAAGAC
 GTTCACCAAGCCCTTGTGTGATCCACCATGAAGCAGAATCTAAGAAAAAGGTCCAAGCATGAAGGAA
 CCAAATCCAATTTCTCCACCAATTTCCATGGTCTGGACACCCTAACCGTATGGGCATTGCGTTTGCAG
 CCTTTGTGATCGGAGCACTCCTGACGGGGCCTTGTGGTACATCTATTCTCACACAGGGGAGACAGCAGG
 AAGGCAGCAAGTCCACCTCCCGCCAGCCTCGGAAAACAGCAGTGTGCCACAGCATCGGCAGCAGC
 CAGAGCACGCCTTGTCCAGCAGCAGCAGCGCC

ACGGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG216595 representing NM_003243
Red=Cloning site Green=Tags(s)

MTSHYVIAIFALMSSCLATAGPEPGALCELSVPSASHPVQALMESFTVLSGCASRGTGLPQEVHVLNLR
TAGQGPGQLQREVTLHLNPISSVHIHHKSVVFLNNSPHPLVWHLKTERLATGVSRLFLVSEGSVVQFSSA
NFSLTAETEERNFPHGNEHLLNWARKEYGAVTSFTELKIARNIYIKVGEDQVFPKCNIGKNFLSLNYLA
EYLQPKAAEGCVMSSQPQNEEVHIIELITPNSNPYSAFQVDITIDIRPSQEDLEVVKNLILILKCKKSVN
WVIKSFQVKGSLKIIAPNSIGFGKESERSMTMTKSIKDDIPSTQGNLVKWDNGYSPITSYTMAPVANR
FHLRLNNAEEMGDEEVHTIPPELRILLDPGALPALQNPPIRGGEGQNGGLPFPFPDISRRVWNEEGEDG
LPRPKDPVIPSILQFPGLREPEEVQGSVDIALSVKCDNEKMIIVAVEKDSFQASGYSMDVTLDDPTCKAK
MNGTHFVLESPLNGCGTRPRWSALDGVVYNSIYIQVPALGDSSGWPDPYEDLESGDNGFPGMDDEGDAS
LFTRPEI VVFNC SLQQVRNPSSFQEQPHGNITFMEL YNTDLFLVPSQGVFVSPENGHVYVEVSVTKAEQ
ELGFAIQTCFISPYSNDRMSHYTIIENICPKDES VKFYSPKRVHFP IQADMDKKRFSFVFKPVFNTSL
LFLQCELTLCTKMEKHPQKLPKCVPPDEACTSLDASIIWAMQNKKTFTKPLAVIHHEAESKEKGPMSKE
PNPISPPIFHGLDTLTVMGIAFAAFVIGALLTGALWYIYSHTGETAGRQVPTSPPASENSAAHSIGST
QSTPCSSSSTA

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_003243

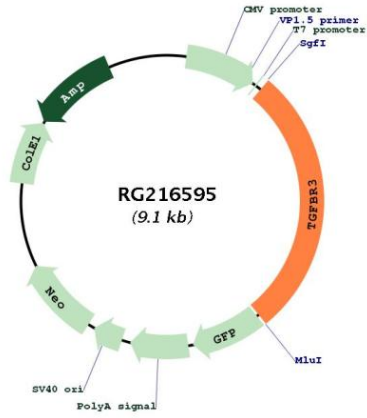
ORF Size: 2553 bp

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:	<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:	<u>NM_003243.2</u> , <u>NP_003234.2</u>
RefSeq Size:	4199 bp
RefSeq ORF:	2556 bp
Locus ID:	7049
UniProt ID:	<u>Q03167</u>
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 TGFB 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]

Product images:



Circular map for RG216595