

Product datasheet for **RG234962**

TGF beta Receptor III (TGFBR3) (NM_001195683) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TGF beta Receptor III (TGFBR3) (NM_001195683) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TGFBR3
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:

>RG234962 representing NM_001195683
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGACTTCCCATTATGTGATTGCCATCTTTGCCCTGATGAGCTCCTGTTTAGCCACTGCAGGTCCAGAGC
CTGGTGCCTGTGGAAGTGTCACTGTCACTGCTCCCATCCTGTCCAGGCCTTGATGGAGAGCTTCAC
TGTTTTGTGAGGCTGTGCCAGCAGAGGCACAACCTGGGCTGCCACAGGAGGTGCATGTCCTGAATCTCCGC
ACTGCAGGCCAGGGCCTGGCCAGCTACAGAGAGAGGTCACTTCACCTGAATCCCATCTCCTCAGTCC
ACATCCACCACAAGTCTGTTGTGTTCTGCTCACTCCACACCCCTGGTGTGGCATCTGAAGACAGA
GAGACTTGCCTGGGCTCCTCAGACTGTTTTGGTGTCTGAGGGTCTGTGGTCCAGTTTTATCAGCA
AACTTCTCCTTGACAGCAGAAACAGAAGAAAGAACTCCCCATGGAAATGAACATCTGTTAAATTGGG
CCCGAAAAGAGTATGGAGCAGTACTTCACTCACCGAAGTCAAGATAGCAAGAAACATTTATATTAAGT
GGGGGAAGATCAAGTGTCCCTCCAAGTGAACATAGGGAAGAAATTTCTCTCACTCAATTACCTTGCT
GAGTACCTTCAACCCAAAGCAGCAGAAAGGTGTGTGATGTCCAGCCAGCCCAAGATGAGGAAGTACACA
TCATCGAGCTAATCACCCCAACTCAACCCCTACAGTGTCTTCCAGGTGGATATAACAATTGATATAAG
ACCTTCTCAAGAGGATCTTGAAGTGGTCAAAAATCTCATCCTGATCTTGAAGTGCAAAAGTCTGTCAAC
TGGGTGATCAAATCTTTGATGTTAAGGGAAGCCTGAAAATATTGCTCCTAACAGTATTGGCTTTGGAA
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TTTCATCTCGGCTTGAATAATGAGGAGATGGGAGATGAGGAAGTCCACACTATTCCTCTGAGCTAC
GGATCCTGTGGACCTGGTCCCTGCCCTGCCCTGCAGAACCCGCCCATCCGGGGAGGGGAAGGCCAAAA
TGGAGGCCTTCCGTTTCCCTTCCAGATATTTCCAGGAGAGTCTGGAATGAAGAGGAGAAGATGGGCTC
CCTCGGCCAAAGGACCCTGTCATTCCCAGCATACAACCTGTTTCTGGTCTCAGAGAGCCAGAAGAGTGC
AAGGGAGCGTGGATATTGCCCTGTCTGTCAAATGTGACAATGAGAAGATGATCGTGGCTGTAGAAAAAGA
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TGTTATGAAGATCTGGAGTCAAGTGAATGGATTTCCGGGAGATATGGATGAAGGAGATGCTTCCCTG
TTCACCCGACCTGAAATCGTGGTGTAAATTGCAGCCTTCAGCAGGTGAGGAACCCAGCAGCTTCCAGG
AACAGCCCCACGGAACATCACCTTCAACATGGAGCTATACAACACTGACCTCTTTTGGTGCCCTCCCA
GGGCGTCTTCTGTGCCAGAGAATGGACACGTTTATGTTGAGGTATCTGTTACTAAGGTGAACAAGAA
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TTATTGAGAAATTTGCTCTAAAGATGAATCTGTGAAATCTACAGTCCCAAGAGAGTGCATTTCTCTAT
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TTTCTACAGTGTGAGCTGACGCTGTGTACGAAGATGGAGAAGCACCCCAAGATGCTTAAAGTGTGTGC
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AATCCAATTTCTCCACCAATTTTCCATGGTCTGGACACCCTAACCGTATGGGCATTGCGTTTGCAGCCT
TTGTGATCGGAGCACTCCTGACGGGGCCTTGTGGTACATCTATTCTCACACAGGGGAGACAGCAGGAAG
GCAGCAAGTCCCACTCCCGCCAGCCTCGGAAAACAGCAGTGTGCCACAGCATCGGCAGCACGCAG
AGCACGCCTTGTCCAGCAGCAGCACGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG234962 representing NM_001195683
Red=Cloning site Green=Tags(s)

MTSHYVIAIFALMSSCLATAGPEPGALCELSVPSASHPVQALMESFTVLSGCASRGTGLPQEVHVLNLR
TAGQGPQQLQREVTLHLNPISSVHIHHKSVVFLNNSPHPLVWHLKTERLATGVSRLFLVSEGSVVQFSSA
NFSLTAETEERNFPHGNEHLLNWARKEYGAVTSFTELKIARNIYIKVGEDQVFPKCNIGKNFLSLNYLA
EYLQPKAAEGCVMSSQPQNEEVHIIELITPNSNPYSAFQVDITIDIRPSQEDLEVVKNLILILKCKKSVN
WVIKSFQVKGSLKIIAPNSIGFGKESERSMTMTKSIRDDIPSTQGNLVKWDNGYSPITSYTMAPVANR
FHLRLENNEEMGDEEVHTIPPELRILLDPGALPALQNPPIRGGEGQNGGLPFPFPDISRRVWNEEGEDGL
PRPKDPVIPSILQFPGLREPEEVQGSVDIALSVKCDNEKMIVAVEKDSFQASGYSGMDVTLDDPTCKAKM
NGTHFVLESPLNGCGTRPRWSALDGVVYNSIVIQVPALGDSSGWPDPGYEDLESGDNGFPGDMDEGDASL
FTRPEIVVFNCSLQQVRNPSSFQEQPHGNITFMELYNTDLFLVPSQGVFSVPENGHVYVEVSVTKAEQE
LGFAIQTCFISPYSNPDRMSHYTIIENICPKDESVKFYSPKRVHFPQPQADMDDKRFVSVFKPVFNTSLL
FLQCELTLCTKMEKHPQKLPKCVPPDEACTSLDASIIWAMMQNKKFTTKPLAVIHHEAESKEKGPSMKEP
NPISPPIFHGLDTLVMGIAFAAFVIGALLTGALWYIYSHTGETAGRQQVPTSPPASENSAAHSIGSTQ
STPCSSSSTA

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

ACCN:	NM_001195683
ORF Size:	2550 bp
OTI Disclaimer:	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:	NM_001195683.2
RefSeq Size:	6472 bp
RefSeq ORF:	2553 bp
Locus ID:	7049
UniProt ID:	Q03167
Cytogenetics:	1p22.1
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]