

Product datasheet for **RG226576**

TGF beta receptor associated protein 1 (TGFBRAPI) (NM_001142621) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	TGF beta receptor associated protein 1
Synonyms:	TRAP-1; TRAP1; VPS3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG226576 representing NM_001142621
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATGAGCATCAAAGCCTTTACGCTTGTCTCTGCTGTGGAGCGGGAGCTGCTGATGGGCGACAAGGAGC
GGGTCAACATAGAGTGCCTGGAGTGTGCGGCAGGGACCTCTACGTGGGCACCAACGACTGCTTCGTCTA
CCACTTCCTGTTGGAGGAGAGGCCAGTGCCTGCTGGGCCAGCCACGTTCACTGCCACCAAACAGCTGCAG
AGACACTTGGGCTTCAAGAAGCCCGTGAACGAGCTGCGCGCGGCCCTCAGCACTCAACAGGCTGCTGGTGC
TGTGTGACAACTCCATCAGCCTGGTCAACATGCTGAACCTCGAGCCAGTGCCTTCGGGGGCCCGCATCAA
GGGGGCAGCCACGTTTGCACTGAACGAGAACCCTGTGAGTGGGGACCCCTTCTGTGTAGAAGTTTGCATC
ATCTCTGTCAAACGCAGAACCATCCAGATGTTTCTGGTGTACGAGGACCGGGTGCAGATCGTCAAGGAGG
TGTGACTGCCGAGCAGCCCTCGCTGTGGCTGTGGACGGCCACTTCCTGTGTCTGGCTCTGACCACTCA
GTACATCATCCACAATTACAGCACAGGCGTCTCCAGGACCTTTTTCCCTACTGCAGTGAGGAGAGGCCG
CCGATCGTCAAGAGGATAGGGAGACAGGAGTTCCTGCTGGCGGGCCCCGAGGGCTGGGCATGTTTGCCA
CAGTCGCAGGGATATCCAGCGTGCCCCCGTGCCTGGTGGGAGATGTGATTGGGGCGGCTGTGTCTT
TCCATACGTCATAGCGCTCGATGACGAATTCATCACAGTCCACAGCATGTTGGATCAGCAACAGAAGCAG
ACGCTGCCCTTTAAGGAGGGCCATATCCTACAGGACTTTGAAGGAAGAGTGATCGTTGCCACAAGTAAAG
GAGTTTACATCTTGGTTCCATTACCTTTGGAAAAACAAATACAGGATCTTCTAGCAAGCCGAGAGTAGA
AGAGGCTTTGGTTTGTAGCAAAAGGAGCCCGAGGAACATTCAAAGGAAAAATTTAGGTAATGTACAGA
AGGATTCTGCAGCAGGCGGGATTTATACAGTTTGCACAACCTCAGTTCTGGAAGCTAAAGAGCTCTTCA
GAAGCGGCCAGCTTGATGTCCGGGAGCTGATCTCTCTACCCCTTCTGTTGCCACCTCTCTCTCTT
CACCCGGTCCACCTCTCTTTCATGAGTACGCAGACCTGAACAGCTGACCCAGGGGGACAGGAGAAG
ATGGCCAAGTGCAAACGCTTCTCATGAGCTACCTGAACGAGGTCCGCAGCACAGAGGTAGCAAAATGGCT
ACAAGGAGGACATCGACACAGCCTTGTCAAATGTATGCAGAGGCTGACCACGACAGCCTGCTGGACCT
CCTGGTCACTGAGAATCTGTCTTCTGACGGACAGTGTGCTGGCTAGAGAAGCACAAAAAGTATTTT
GCACTTGGACTGCTCTATCATTATAATAACCAAGATGCTGCTGCAGTTCAAGTTGTGGGTGAACATTGTGA
ATGGCGATGTCCAGGACTCCACACGCTCAGACCTGTATGAATACATCGTGGATTTTCTTACCTACTGCTT
AGACGAGGAAGTGTGGCCTATGCTGATTGGGTCTGCAGAAAAGTGAAGAGGTGCGAGTTCAGGTT
TTCACCAAGAGACCTTTGGATGAACAGCAGAAGAACAGTTTAAATCCAGACGACATTATCAATTGCCTTA
AAAAATACCTAAAGCCCTTGTGAAGTATCTGGAACATCTTGATAGACAAGAGACTGCAGAAAAGAAGA
GTATCACACCCACTTAGCTGTGCTGTACCTGGAAGAGGTGCTGCTGCAGAGGGCCTCCGCCAGTGGAAG
GGTGCAGAGGCCACCGAGACGAGGCAAGCTGCGCGGGCTGCTCCAGAAATCTGATTTATACCGAGTCC
ACTTTCTTCTCAGAGGCTGCAGGGAGCTGGCTGCCATGGAGAGCGCCATCTGCACGGGAAGCTGGG
CGAGCATGAGAAGGCGCTGCATATCCTGGTGCACGAGCTGCAGGACTTTGCAGCGGCCGAGGACTACTGC
CTGTGGTGTCCGAGGGCCGAGACCCACCCACGCCAGCAACTCTTTCACACGCTGCTGGCCATCTACC
TGCATGCTGGCCCCACTGCCACGAGCTGGCCGTGGCTGCCGTGGACCTGCTGAACCGCCACGCCACCGA
ATTTGATGCAGCCAGGTGCTGCAGATGCTGCCTGACACCTGGTCAAGTGCAGCTCTCTGCCATTCTCTG
ATGGGGGCCATGAGGGACAGCATCCATGCCAGGAGGACCATGCAGGTGGCTCTCGGCCTGGCCAGGTCCG
AAAACCTAATCTACACCTACGATAAGATGAAGTTGAAAGGAAGCTCAATCCAACCTCTCAGACAAAAGCT
TTGTCAGATATGCCAAATCCCTTTTGTGAGCCTGTGTTTGTAGATACCAATGGTGGTCTTGTGCAC
ACCCACTGTGCCGCCAGCAGACACAAACCCAGCTCATCCAGTCTGGCACTCGGACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG226576 representing NM_001142621

Red=Cloning site Green=Tags(s)

MMSIKAFITLVSARELLMGDKERVNIECECCGRDLYVGTNDCFVYHFLLEERPVPAGPATFTATKQLQ
 RHLGFKKPVNELRAASALNRLLVLCDSISLVNMLNLEPVPSGARIKGAATFALNENPVSGDPFCVEVCI
 ISVKRRTIQMFLVYEDRVQIVKEVSTAEQPLAVAVDGHFLCLALTTQYIIHNYSTGVSQDLFPYCSEERP
 PIVKRIGRQEFLLAGPGLGMFATVAGISQAPVHWSENVIGAASFPYVIALDDEFITVHSMQDQKQ
 TLPFKEGHILQDFEGRVIVATSKGVYILVPLPLEKQIQDILLASRRVEEALVLAKGARRNIPKEKFQVMYR
 RILQQAGFIQFAQLQFLEAKELFRSGQLDVRELISLYPFLPTSSSFTRSHPLHEYADLNQLTQGDQEK
 MAKCKRFLMSYLNVRSTEVANGYKEDIDTALLKLYAEADHDSLLDLLVTENFCLLTDSAAWLEKHKYF
 ALGGLYHNNQDAAAVQLWVNIYNGDVQDSTRSDLYEYIVDFLTCLDEELVWAYADWVLQKSEEVGVQV
 FTKRPLDEQQKNSFNPDIIINCLKKYPKALVKYLEHLVIDKRLQKEEYHHLAVLYLEEVLQKASASGK
 GAEATETQAKLRRLQKSDLYRVHFLERLQAGLPMESAILHGKLGEHEKALHILVHELQDFAAEDYC
 LWCSEGRDPPHRQQLFHTLLAIYLAHPTAHELAVAVDILLNRHATEFDAAQVLQMLPDTWSVQLLCPFL
 MGAMRDSIHARRTMQVALGLARSENLIYTYDKMKLKGSSIQLSKKLCQICQNPFCFVFRYPNGGLVH
 THCAASRHTNPSSSPGTRT

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

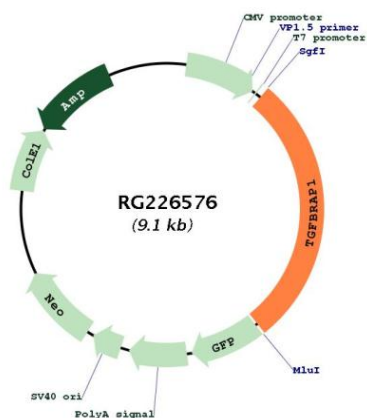
Cloning Scheme:



ACCN:	NM_001142621
ORF Size:	2580 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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001142621.1 , NP_001136093.1
RefSeq Size:	2975 bp
RefSeq ORF:	2583 bp
Locus ID:	9392
UniProt ID:	Q8WUH2
Cytogenetics:	2q12.1-q12.2
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes a protein that binds to transforming growth factor-beta (TGF-beta) receptors and plays a role in TGF-beta signaling. The encoded protein acts as a chaperone in signaling downstream of TGF-beta. It is involved in signal-dependent association with SMAD4. The protein is also a component of mammalian CORVET, a multisubunit tethering protein complex that is involved in fusion of early endosomes. [provided by RefSeq, Jun 2016]

Product images:



Circular map for RG226576