

Product datasheet for **RG207572**

TROAP (NM_005480) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	TROAP
Synonyms:	TASTIN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG207572 representing NM_005480
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGC

ATGACCACCGGCAAGCCAGCAAGGATCCCCTCCTCCGGGGTGTATCTCCTACCCCTAGCAAGATTCCGG
 TACGCTCTCAGAAACGCACGCCCTTTCCCACTGTTACATCGTGCGCCGTGGACCAGGAGAACCAAGATCC
 AAGGAGATGGGTGCAGAAACACCGCTCAATATTCAACGCCCTCGTTGATTAGCAGGCCCCAGGCCG
 AAAGCCAGGCACAGGCAGAGACATCACAAGATTGGTGGGGATCAGTCAGCCTCGGAACCCCTTGAAG
 AGCTCAGGCCTAGCCCTAGGGGTCAAAATGTGGGGCTGGGCCCCCTGCCAGACAGAGGCTCCAGGGAC
 CATAGAGTTTGTGGCTGACCTGCAGCCCTGGCCACCATCCTGTAGGTGAGGGTGTGAAGAGCTGTAC
 CTGGGGCGCCAGCCTAGTCTGGCTAAAAGAGTACTGGTTCGAGGAAGTCAGGGAGGCACACCCAGAGGG
 TCCAGGGTGTTCGGGCTCTGCATATTTGGCCCCCAGAACCCACCCACCGACTGGACCCTGCCAGGGC
 TTCCTGCTTCTTAGGCTGGAGGGACAGGACCTCGAGGCCGGACATTGTCCCCCAGAGGCTACAGGCT
 CTGATTTACCTTCAGGACCTTCCTTTACCCCTTCCACTCGCCCCAGTTTCCAGGAGCTAAGAAGGGAGA
 CAGCTGGCAGCAGCCGACTTCAGTGAGCCAGGCCTCAGGATTGCTCCTGGAGACCCAGTCCAGCCTGC
 TTTCTCTTCTTAAAGGAGAACCGGAGGTTGTCACTCACTCAGATGAAGGAGGTGTGGCCTCTCTTGGT
 CTGGCCACGAGTACCATTAAGAGAAAACCGAGAAATGTACATACCAGGGACAGCCATGACTCCCACC
 TGATGCCCTCCCCTGCCCTGTGGCCAGCCCTTGCCCTGGCCATGTGGTCCATGTCCATCACCCCTTGG
 ACGGGCTCAGCGTGTACCTCCCCAGGCCCTCAACTCTGACCTCATATTCAGTGTTCGGCGTCTCACC
 GTTCAACCTAAAACCCGGTTCACCCCATGCCATCAACCCACAGAGTTCAGCAGGCCAGTGGTGCCTG
 GTGCTCCCCCTCAGTCTGCTGAAGATCCTGCCCTGCCCTGGGAGCAGGTTGCCGTCCGGTGTGTTGA
 CCAGGAGAGTTGTATAAGGTCACTGGAGGGTTCTGGGAAACACCGGTGGCCACTCCTTCTGGACCCAC
 TCTAACAGAACCCCGCCTCCAGGAGGTGAAGATTCAACGCATCGGTATCCTGCAACAGCTGTTGAGAC
 AGGAAGTAGAGGGGCTGGTAGGGGGCCAGTGTGTCCTCTTAATGGAGGCTCTTCTCTGGATATGGTTGA
 ACTTCAGCCCCTGCTGACTGAGATTTCTAGAATCTGAATGCCACAGAGCATAACTCTGGGACTTCCCAC
 CTTCTGGACTGTTAAACACTCAGGGCTGCCAAAGCCCTGTCTTCCAGAGGAGTGTGGGGAACACAGC
 CCTGCCCTCCGGCAGAGCCTGGGCCCCCAGAGGCCTTCTGTAGGAGTGAGCCTGAGATACCAGAGCCCTC
 CCTCCAGGAACAGCTTGAAGTACCAGAGCCCTACCCTCCAGCAGAACCCAGGCCCTAGAGTCTGCTGT
 AGGAGTGAGCCTGAGATACCGGAGTCTCTCGCCAGGAACAGCTTGAGGTACCTGAGCCCTGCCCTCCAG
 CAGAACCCAGGCCCTAGAGTCTACTGTAGGATTGAGCCTGAGATACCGGAGTCTCTCGCCAGGAACA
 GCTTGAGGTACCTGAGCCTGCCCTCCAGCAGAACCCGGGCCCTTCAGCCCAGCACCCAGGGGCAGTCT
 GGACCCCCAGGGCCCTGCCCTAGGGTAGAGCTGGGGGCATCAGAGCCCTGCACCCTGGAACATAGAAGTC
 TAGAGTCCAGTCTACACCTGCTGCAGTCAGTGGGCTCCAGCAACCACAGCCTGATCTTCTTTCCCA
 ACACCCGCTTTGTGCCAGCCCCCTATCTGCTCACTCCAGTCTTTGAGACCCCCAGCAGGCCAGGCAGGC
 CTCAGCAATCTGGCCCTCGAACCTAGCCCTGAGGGAGCGCCTCAAATCGTGTGTTAACCGCATCCACT
 GCTTCCACGAGGCTCGTCTGGACGATGAGTGTGCCTTTACACAGCCGAGCCCTCCCTCAGGCCCCAC
 CCGGGTCTGCACCAACCTGTGGCTACATTACTCGAATGGCAGGATGCCCTGTGTTTATTCCAGTTGGT
 TCTGCTGCCCCCAGGGCTCTCCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG207572 representing NM_005480

Red=Cloning site Green=Tags(s)

MTTRQATKDPLLRGVSPTPSKIPVRSQKRTFPFTVTSCAVDQENQDPRRWQKPPLNIQRPLVDSAGPRP
KARHQAETSQRLVGISQPRNPLEELRPSRQGNVGPQPPAQTEAPGTIEFVADPAALATILSGEGVKSCH
LGRQPSLAKRVLVRGSQGGTTQRVQGVASAYLAPRTPTHRDPARASCFSRLEGPGRGRTLCPQRLQA
LISPSGSPFHPSTRPSFQELRRETAGSSRTSVSQASGLLLETPVQPAFSLPKGEREVVTHSDEGGVASLG
LAQRVPLRENREMSHTRDSDHSLMPSPAPVAQPLPGHVVPSPFGRVQVSPGPPTLTYSVLRRLT
VQPKTRFTMPSTPRVQQAQWLRGVSPQSCSEDPALPWEQVAVRLFDQESCIRSLEGSKKPPVATPSGPH
SNRTPSLQEVKIQRIGILQQLLRQVEVLVGGQCVPLNGGSSLDMLVQLPLLEISRTLNATEHNSGTSH
LPGLLKHSGLPKCLPEECGEPQCPPEAEPGPPEAFRCSEPEIPEPSLQEQLEVPEPYPPAEPRPLESCC
RSEPEIPESSRQEQLEVPEPCPPAEPRPLESYCRIEPEIPESSRQEQLEVPEPCPPAEPLQSTQGGQS
GPPGPCPRVELGASEPCTLEHRSLESSLPCCSQWAPATTSLIFSSQHPLCASPPICSLQSLRPPAGQAG
LSNLAPRTLALRERLKSCLTAIHCHEARLDDECAFYTSRPPSGPTRVCTNPVATLLEWDALCFIPVG
SAAPQGSP

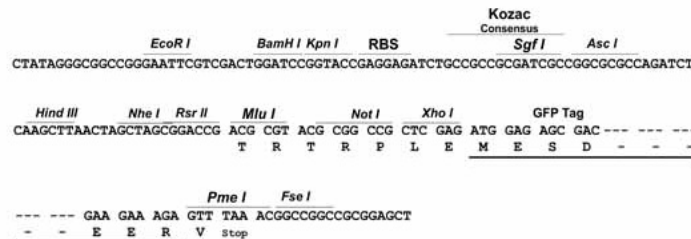
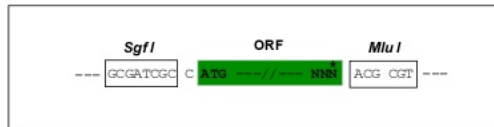
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN:

NM_005480

ORF Size:

2334 bp

OTI Disclaimer:

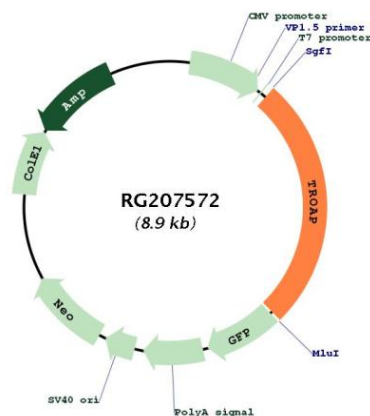
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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_005480.2 , NP_005471.2
RefSeq Size:	2561 bp
RefSeq ORF:	2337 bp
Locus ID:	10024
UniProt ID:	Q12815
Cytogenetics:	12q13.12
Gene Summary:	Could be involved with bystin and trophinin in a cell adhesion molecule complex that mediates an initial attachment of the blastocyst to uterine epithelial cells at the time of the embryo implantation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG207572