

Product datasheet for **RG213174**

TRIM23 (NM_033228) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	TRIM23
Synonyms:	ARD1; ARFD1; RNF46
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG213174 representing NM_033228
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCTACCTGGTTGTAACAAGCTCGGAGCGGAGTAGACAGTGGCCGGCAGGCAGCCGGGGACAG
 CTGTAGTGAAGGTGCTAGAGTGTGGAGTTTGTGAAGATGTCTTTCTTTGCAAGGAGACAAAGTTCCCGG
 TCTTTTGCTTTGTGGCCATACCGTCTGTCACTGTCTCACTCGCTACCTCTTTCATGGAAGAGCAATC
 CGTTGCCCCATTGATCGACAAGTAACAGACCTAGGTGATTCAGGTGTCTGGGGATTGAAAAAATTTTG
 CTTTATTGGAGCTTTTGAACGACTGCAGAATGGGCCATTGGTCAGTATGGAGCTGCAGAAGAATCCAT
 TGGGATATCTGGAGAGAGCATCATTGTTGTGATGAAGATGAAGCTCACCTTGCCTCTGTATATTGCACT
 GTGTGTGCAACTCATTTGTGCTCTGAGTGTCTCAAGTTACTCATTCTACAAAGACATTAGCAAAGCACA
 GGCGAGTTCCTCTAGCTGATAAACCTCATGAGAAACTATGTGCTCTCAGCACCAGGTGCATGCCATTGA
 GTTTGTTTGTGTTGAAGAAGGTTGTCAAAGTACCCACTCATGTGCTGTGTCTGCAAAGAATATGAAAA
 CACCAGGGTCACAAGCATTAGTATTGGAACGAGAAGCTAATCAGATCCGAGCATCAATTTTAGATATGG
 CTCACCTGCATACGGACCTTCACAGAGGAAATCTCAGATTATTCAGAAAAATTAGTTGGAATTGTGCAGCA
 CATTGAAGGAGGAGAACAAATCGTGGAGATGGAATTGGAATGGCTCACACAGAACATGTACCAGGGACT
 GCAGAGAATGCCCGGTGATGATTCGAGCTTATTTTATGATCTACATGAACTCTGTGCTGCAAGAAG
 AAATGGCTCTAAGTGTGTTGATGCTCATGTTCTGTAAGAAATGATTTGGCTCAGGCAGCAACAAGAAGA
 TATGACTATTTTGTGTCAGAGGTTTCTGAGCCTGCCTCCACTGTGAAAAGACTTTGCAGCAGGATGAT
 TGTAAGATTGTCTTGGCAAAACAGGAAATTACAAGGTTACTGGAACATTGCAGAAACAGCAGCAGCAGT
 TTACAGAAGTTGCAGATCACATTAGTTGGATGCCAGCATCCCTGTCACCTTTTACAAAGGATAATCGAGT
 TCACATTGGACCAAAAAATGGAATTCGGGTGCTTACGTTAGGATTGGATGGTGTGGAAGAACTACTATC
 TTGTTTAAAGTTAAACAGGATGAATTCATGCAGCCATTCCAACAATTGGTTTAAACGTGGAAGACTGTAG
 AATATAAAATCTAAATTCATATTTGGGATGTAGGTGGAAGAACAAATTAAGACCATTGTGGAACA
 TTATTACCTCAATACTCAAGCTGTTGTGTTGTGTAGATAGCAGTCATAGAGACAGAATTAGTGAAGCA
 CACAGCGAACTTGCAAGTTGTTAACGGAAAAAGAACTCCGAGATGCTCTGCTCCTGATTTTGTCTAACA
 AACAGGATGTTGCTGGAGCACTGTCAGTAGAAGAAATCACTGAACTACTCAGTCTCCATAAATTATGCTG
 TGGCCGTAGCTGTTTTTCAGATAATATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG213174 representing NM_033228
 Red=Cloning site Green=Tags(s)

MATLVVNKL GAGVDSGRQGSRGTA VVKVLECGVCEVFLQGD KVPRLLLCGHTVCHDCLTRLPLHGRAI
 RCPFDRQVTDLGD SGVWGLKKNFALLELLERLQNGPIGQYGA AEESIGISGESIIRCEDEAHLASVYCT
 VCATHLCSECSQVTHSTKTLAKHRRVPLADKPHEKTMCSQH QVHAIEFVCL EEGCQTSPLMCCVCKEYK
 HQGHKHSVLEPEANQIRASILDMAHCIRTFTEEISDYSRKL VGIQVHIEGGEQIVEDGIGMAHTEHVP
 AENARSCIRAYFYDLHETLCRQEEMALSVVD AHVREKLIWLRQQQEDMTILLSEVSAACLHCEKTLQDD
 CRVVLAKQEITRLLET LKQQQQFTEVADHIQLDASIPVTFKDN RVHIGPKMEIRVVTLGLDGAGKTTI
 LFKLKQDEFMQPIPTIGFNVETVEYKNLFTIWDVGGKHLRPLWKHYLNTQAVVFVVDSSHRDRISEA
 HSELAKLLTEKELRDALLLIFANKQDVAGALSV EEITELL SLHLCCGRSCFSDNM

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_033228

ORF Size: 1638 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.

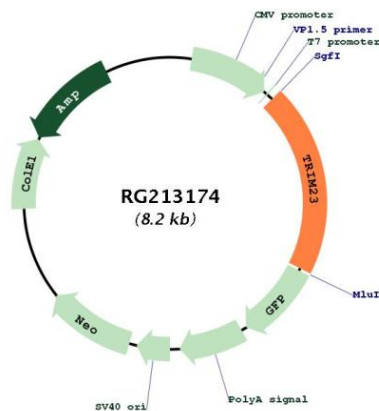
RefSeq: [NM_033228.3](#)

RefSeq Size: 2400 bp

RefSeq ORF:	1641 bp
Locus ID:	373
UniProt ID:	P36406
Cytogenetics:	5q12.3
Domains:	zf-B_box, RING, RAB, BBC, SAR, ARF, arf
Protein Families:	Druggable Genome

Gene Summary: The protein encoded by this gene is a member of the tripartite motif (TRIM) family. The TRIM motif includes three zinc-binding domains, a RING, a B-box type 1 and a B-box type 2, and a coiled-coil region. This protein is also a member of the ADP ribosylation factor family of guanine nucleotide-binding family of proteins. Its carboxy terminus contains an ADP-ribosylation factor domain and a guanine nucleotide binding site, while the amino terminus contains a GTPase activating protein domain which acts on the guanine nucleotide binding site. The protein localizes to lysosomes and the Golgi apparatus. It plays a role in the formation of intracellular transport vesicles, their movement from one compartment to another, and phospholipase D activation. Three alternatively spliced transcript variants for this gene have been described. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG213174