

Product datasheet for **RG213268**

Trophinin (TRO) (NM_016157) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trophinin (TRO) (NM_016157) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Trophinin
Synonyms:	MAGE-d3; MAGED3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG213268 representing NM_016157
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATAGGAGAAATGACTACGGATATAGGGTGCCTCTATTTTCAGGGCCCTCTGCCTCCCCGGGGAGCC
 TGGGGCTTCCCTTCCCTCCAGATATACAGACTGAGACCACAGAAGAGGACAGTGTCTGCTGATGCATAC
 CCTGTTGGCGGCAACCAAGGACTCCCTGGCCATGGACCCACCAAGTTGTCAACCGGCCTAAGAAAAGCAAG
 ACCAAGAAGGCCCTATAAAGACTATTACTAAGGCTGCACCTGCTGCCCTCCAGTCCCAGCTGCCAATG
 AGATTGCCACCAACAAGCCCAAAATAAATTGGCAGGCTTTAAACCTGCCAGTCATTACCCAGATCAGCCA
 GGCTTTACCTACCACTGAGGTAACCAATACTCAGGCTTCTTCAGTCACTGCTCAGCCTAAGAAAGCCAAC
 AAGATGAAGAGAGTTACTGCCAAGGCAGCCCAAGGCTCCCAATCCCCAAGTGGCCATGAGGGTGGCACTA
 TACAGCTGAAGTCAACCTTGCAGGTCTAAAGCTACCAGTCATCTCACAGAATATTCACGCTCCAATTGC
 CAATGAGTCAGCCAGTTCCTCAAGCCTTGATAACCTCTATCAAGCCTAAGAAAGCTTCCAAGGCTAAGAAG
 GCTGCAAATAAGGCCATAGCTAGTGCCACCGAGGTCTCGCTGGCTGCAACTGCCACCCATACAGCTACCA
 CCCAAGGCCAAATTACCAATGAGACAGCCAGTATCCACACCACAGCAGCCTCCATCCGAACCAAGAAAGC
 CTCCAAAGCCAGGAAGACAATTGCTAAGGTCTATAAATACTGACACTGAGCATATAGAGGCTCTAAATGTC
 ACTGACGCAGCTACCAGGCAGATTGAGGCTCAGTAGTGGCTATCAGGCCCAAAAATCCAAGGGCAAGA
 AGGCTGCCAGCAGGGGCCCAAAATCTGTCTCTGAGATCTCTGAGGCCCACTTGCCACTCAGATAGTCAC
 AAACCAAGCCCTGGCAGCCACCTGCGGGTCAAGAGAGGGTCTAGGGCTCGGAAGGCTGCCACTAAGGCT
 CGGGCAACTGAAAGCCAGACTCCAAATGCTGACCAAGGGGCCAGGCCAAGATAGCCTCTGCTCAGACCA
 ACGTAAGTGCCCTTGAGACTCAGGTTGCTGCTGCTGCCAGGCCCTGGCAGATGACTATCTGGCTCAGTT
 GAGCCTGGAGCCCACAACCAAGGACCCGGGGCAAAAGAAACCGAAAGTCCAAGCATCTGAATGGGGATGAG
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 GGTGATTCTGAGTGTATTTTTATGAATGGCAACAAGGCCAGTGAGGCTGTCATCTGGGAGGTGCTGCGC
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 GACCCCAAGGACTGGGCTGTGCACTACCGCGAGGCAGTGAGATGGAAGTCCAAGCTGCAGCTGTGGCTG
 TGGCTGAGGCTGAAGCCAGGGCTGAGATTTATCCCATGTTTACAGATACCGCTAATAAATTGCAGTAG
 TCCTTCCCATGGAGCCAAAGTACATCCTTGAATCTTTGTCCACACAGCAGTCAAGGCAGTTATGGCCAA
 TCAGCTGAGGGTGTCTATG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

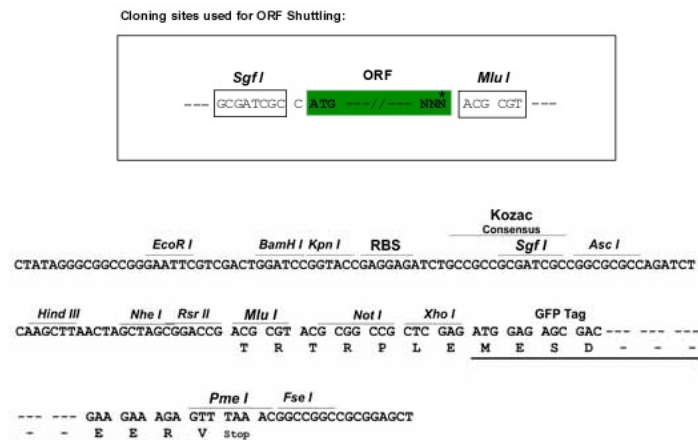
Protein Sequence: >RG213268 representing NM_016157
 Red=Cloning site Green=Tags(s)

MDRRNDYGYRVPLFQGGLPPPGSLGLPFPPDIQTETTEEDSVLLMHTLLAATKDSLAMDPPVVNRPKKSK
 TKKAPIKTITKAAPAAPPVPAANEIATNPKITWQALNLPVITQISQALPTTEVTNTQASSVTAQPKKAN
 KMKRVTAKAAQGSQSPTGHEGGTIQLKSPLQVLKLPVISQNIHAPIANESASSQALITSIKPKKASKAKK
 AANKAIASATEVSLAATATHTATTGQITNETASIHTTAASIRTKKASKARKTIAKVINTDTEHIEALNV
 TDAATRQIEASVVAIRPKKSKGKKAASRGPNVSEISEAPLATQIVTNQALAATLRVKRGRARKAATKA
 RATESQTPNADQGAQAKIASAQTNVSALETQVAAAVQALADDYLAQLSLEPTTRTRGKRNRSKHLNGDE
 RSGSNYRRIPWGRPPAPRDVAQLQERANKLVKYLKVQDQTKIPIKRSMDLRDVIQEYDEYFPEIIERAS
 YTLEKMFVRNLKEIDKQSSLYILISTQESSAGILGTTKDTPKLGLLMVILSVIFMNGNKASEAVIWEVLR
 KLGLRPGVRHSLFGEVRKLITDEFVKQKYLEYKRVPNRPPEYEFFWGLRSYHETSKMKVLKFACRVQKK
 DPKDWAVQYREAVEMEVQAAAVAVAEAEARAEIYSPCLQIPLINCSSPSHGAKVHPWNLCPHSSQGSYGQ
 SAEGVM

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016157

ORF Size: 2118 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.

RefSeq: [NM_016157.4](#)

RefSeq Size: 2597 bp

RefSeq ORF: 2121 bp

Locus ID: 7216

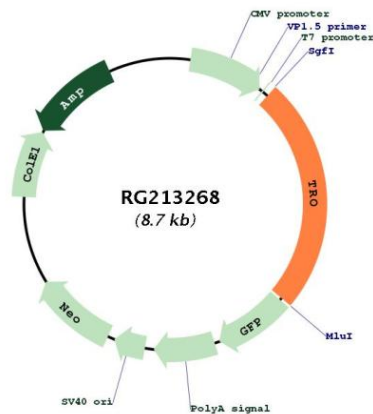
UniProt ID: [Q12816](#)

Cytogenetics: Xp11.21

Domains: MAGE

Gene Summary: This gene encodes a membrane protein that mediates cell adhesion between trophoblastic cells and the epithelial cells of the endometrium. The encoded protein participates in cell signalling during embryo implantation, and may also be involved in cancer formation. This gene is located near several other closely related genes on chromosome X. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2012]

Product images:



Circular map for RG213268