

## Product datasheet for **RG213880**

### TRIM5 alpha (TRIM5) (NM\_033093) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TRIM5 alpha (TRIM5) (NM_033093) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TRIM5
Synonyms:	RNF88; TRIM5alpha
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG213880 representing NM_033093 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTTCTGGAATCCTGGTTAATGTAAGGAGGAGGTGACCTGCCCATCTGCCTGGAACCTCTGACAC  
AACCCCTGAGCCTGGACTGCGGCCACAGCTTCTGCCAAGCATGCCTCACTGCAAACCACAAGAAGTCCAT  
GCTAGACAAAGGAGAGAGTAGCTGCCCTGTGTCCGGATCAGTTACCAGCCTGAGAACATACGGCCTAAT  
CGGCATGTAGCCAACATAGTGGAGAAGCTCAGGGAGGTCAAGTTGAGCCCAGAGGGGCAGAAAGTTGATC  
ATTGTGCACGCCATGGAGAGAACTTCTACTCTTCTGTGTCAGGAGGACGGGAAGGTCATTTGCTGGCTTTG  
TGAGCGGTCTCAGGAGCACCGTGGTACCACACGTTCTCACAGAGGAGGTTGCCAGGAGTACCAAGTG  
AAGCTCCAGGCAGCTCTGGAGATGCTGAGGCAGAAGCAGCAGGAAGCTGAAGAGTTGGAAGCTGACATCA  
GAGAAGAGAAAGCTTCTGGAAGACTCAAATACAGTATGACAAAACCAACGTCTTGGCAGATTTTGAGCA  
ACTGAGAGACATCCTGGACTGGGAGGAGAGCAATGAGCTGCAAAAACCTGGAGAAGGAGGAGGAAGACATT  
CTGAAAAGCCTTACGAATCTGAACTGAGATGGTGCAGCAGACCCAGTCCCTGAGAGAGCTCATCTCAG  
ATCTGGAGCATCGGCTGCAGGGGTCAGTGATGGAGCTGCTTCAGGGTGTGGATGGCGTCATAAAAAGGAC  
GGAGAACGTGACCTTGAAGAAGCCAGAACTTTTCCAAAAATCAAAGGAGAGTGTTCGAGCTCCTGAT  
CTGAAAGGAATGCTAGAAGTGTTTAGAGAGCTGACAGATGTCGACGCTACTGGGCTGGAGTGCAATGG  
CAGGATCTCGGTTCACTGCAACCTCCACCTCTCAGATTCAAGCAATTCTCTGCCTCAGCCTCCCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG213880 representing NM\_033093  
 Red=Cloning site Green=Tags(s)

MASGILVNVKKEEVTCPICLELLTQPLSLDCGHSFCQAQLTANHKKSMKDKGESSCPVCRISYQPENIRPN  
 RHVANIVEKLEKREVKLSPEGQKVDHCAHGEKLLLFQEDGKVICWLCERSQEHARGHHTFLTEEVAQEYQV  
 KLQAALEMLRQKQQAEELEADIREEKASWKTQIQYDKTNVLAADFEQLRDILDWEE SNELQNLEKEEDI  
 LKSLTNSETEMVQQTQSLRELI SDLEHRLQGSVMELLQGV DGVIKRTENVTLKKPETFFPKNQRVFRAPD  
 LKGMLEVFRELTDVRRYWGWSAMARSRF TATSTSQIQAILLPQPPK

TRTRPLE - GFP Tag - V

**Restriction Sites:**

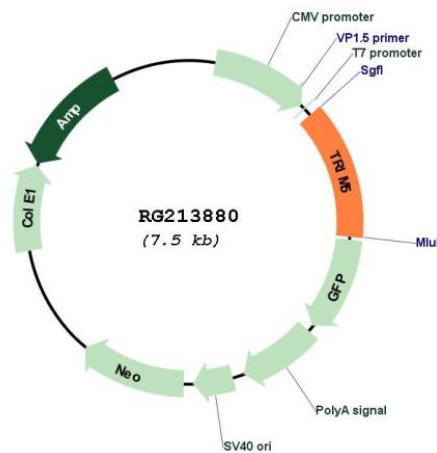
Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_033093

**ORF Size:** 978 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_033093.1</a> , <a href="#">NP_149084.1</a>
<b>RefSeq Size:</b>	1782 bp
<b>RefSeq ORF:</b>	981 bp
<b>Locus ID:</b>	85363
<b>UniProt ID:</b>	<a href="#">Q9C035</a>
<b>Cytogenetics:</b>	11p15.4
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	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. The protein forms homo-oligomers via the coiled-coil region and localizes to cytoplasmic bodies. It appears to function as a E3 ubiquitin-ligase and ubiquitinates itself to regulate its subcellular localization. It may play a role in retroviral restriction. Multiple alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Dec 2009]