

## Product datasheet for **RG213587**

### EIF5 (NM\_183004) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EIF5 (NM_183004) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EIF5
Synonyms:	EIF-5; EIF-5A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG213587 representing NM_183004 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTGTCAATGTCAACCGCAGCGTGTGACACCAGTTCTATCGCTACAAGATGCCCGTCTGATTGCCA  
AGGTTGAGGGCAAAGGCAATGGAATCAAGACAGTTATAGTCAACATGGTTGACGTTGCAAAGGCGCTTAA  
TCGGCCTCCAACGTATCCACCAAATATTTGGTTGTGAGCTGGGAGCACAGACCCAGTTTGATGTTAAG  
AATGACCGTTACATTGTCAATGGATCTCATGAGCGAATAAGCTGCAAGACATGTTGGATGGATTGATTA  
AAAAATTTGTTCTGTCTGCTGAATGTGAGAATCCTGAAACAGATTTGCATGTCAATCCAAAGAAGCAAAC  
AATAGGTAATTCTTGAAAGCCTGTGGCTATCGAGGCATGCTTGACACACATCATAAACTCTGCACATTC  
ATTCTCAAAAACCCACCTGAGAATAGTGACAGTGGTACAGGAAAGAAAAGAAAAGAAAAGAAAACAGAA  
AGGGCAAAGACAAGGAAAATGGCTCCGTATCCAGCAGTGAGACACCACCACCACCACCACCAATGA  
AATTAATCCTCCTCCACATACAATGGAAGAAGAGGAGGATGATGACTGGGAGAAGATACAACCTGAGGAA  
GCTCAAAGGCGTCGAATGGATGAAATCAGTGACCATGCAAAAGTTCTGACACTCAGTGATGATTTGGAAA  
GAACAATTGAGGAGAGGGTCAATATCCTCTTTGATTTTGTAAAGAAAAGAAAAGAGAGGGTGTATTGA  
TTCATCTGACAAAAGAAATCGTTGCTGAAGCAGAAAAGACTGGATGTAAGAAATACAGGCGCCATTTCTACGATTT  
ACTGAAGTCTTTTTAATGAGAAGATTAGAGAACAGATTAAGAAATACAGGCGCCATTTCTACGATTT  
GTCACAACAACAAAAGCCCAACGGTACCTTCTCATGGTTTGGAGTGTGTGGTAGCAATGCATCAAGC  
TCAGTCTATCTCCAAGATTCCACATATCTTGAAGGAGATGTACGATGCAGACCTTTTAGAAGAAGAGGTC  
ATCATCAGCTGGTCGAAAAGGCCTCTAAGAAATATGTCTCAAAGAACTTGCCAAAAGAGATTCGTGTCA  
AAGCAGAACCATTTATAAAATGGTTGAAGGAGGCAGAGGAAGAATCTTCTGGTGGCAGAAGAAGATGA  
AGATGAGAACATTGAGGTGGTGTATTCGAAGGCTGCCAGTGTACCGAAAGTTGAGACTGTAAGTGCAGAC  
ACAAGGATGACGACATCGATATTGATGCCATT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG213587 representing NM\_183004  
 Red=Cloning site Green=Tags(s)

MSVNVNRSVSDQFYRYKMPRLIAKVEGKNGIKTVIVNMVDVAKALNRPPTYPTKYFGCELGAQTQFDVK  
 NDRYIVNGSHEANKLQDMLDGF IKKFVLCPEENPETDLHVNPKQTIGNSCKACGYRGLDTHHKLCTF  
 ILKNPPENS DSGTGKKEKEKKNRKGDKENG SVSSSETPPPPPPPNEINPPPHTEEEEEEDDWDGDTTEE  
 AQRRRMD EISDHAKVLTLSDDLERTIEERVN ILFDVFKKKKEEGVIDSSDKEIVAE AERLDVKAMGPLVL  
 TEVLFNEKIREQIKYRRHFLRFCHNNKKAQRYLLHGLECVVAMHQAQLISKIPHILKEMYDADLLEEEV  
 IISWSEKASKKYVSKELAKEIRVKAEPFIKWLKEAEESSGGEEDEDEDENIEVVYSKAASVPKVETVKSD  
 NKDDIDIDAI

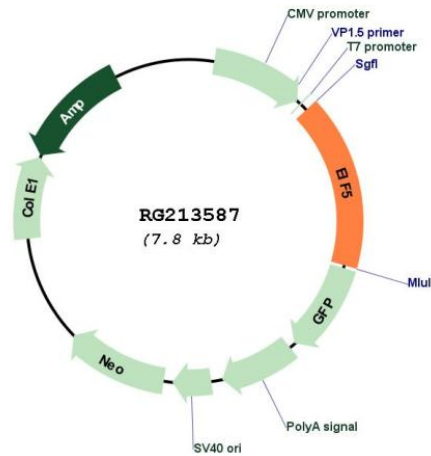
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_183004

<b>ORF Size:</b>	1293 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_183004.5</a>
<b>RefSeq Size:</b>	5782 bp
<b>RefSeq ORF:</b>	1296 bp
<b>Locus ID:</b>	1983
<b>UniProt ID:</b>	<a href="#">P55010</a>
<b>Cytogenetics:</b>	14q32.32
<b>Gene Summary:</b>	Eukaryotic translation initiation factor-5 (EIF5) interacts with the 40S initiation complex to promote hydrolysis of bound GTP with concomitant joining of the 60S ribosomal subunit to the 40S initiation complex. The resulting functional 80S ribosomal initiation complex is then active in peptidyl transfer and chain elongations (summary by Si et al., 1996 [PubMed 8663286]).[supplied by OMIM, May 2010]