

## Product datasheet for **RG221858**

### ACTBL2 (NM\_001017992) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ACTBL2 (NM_001017992) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ACTBL2
Synonyms:	ACT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221858 representing NM_001017992 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACTGACAATGAGCTGTCTGCCTTGGTAGTGGATAATGGGTCAGGGATGTGCAAGGCAGGCTTTGGTG  
GTGACGATGCCCCCGGGCTGTGTTCCCTCCATGATAGGGCGTCCTCGACACCAGGGCGTTATGGTAGG  
CATGGGCCAGAAGGACTGCTACGTGGGAGATGAGGCTCAGAGCAAGAGAGGCGTCCTGACCCTGAAGTAT  
CCTATCGAGCATGGAGTGGTACCAACTGGGACGATATGAAAAAGATCTGGTACCACACATTCTACAATG  
AGCTCCGTGTGGCACCAGATGAGCATCCCATCCTCCTCACGAGGCACCCCTGAACCCCAAGATCAACCG  
GGAAAAGATGACTCAGATCATGTTTCGAGGCTTTCAACACACCAGCCATGTATGTCGCCATCCAGGCTGTG  
CTGTCCCTCTATGCCTCAGGACGGACCACAGGCATCGTGATGGATTCTGGGGATGGGGTCACTCACATCG  
TGCCCATCTATGAAGTTATGCCCTGCCTCATGCCATTCTACGCCTGGATCTGGCAGGGAGAGACCTGAC  
TGATTACCTCATGAAGATCCTGACAGAGCGAGGCTATAACTTCACCACCCTGCTGAGCGGGAGATTGTG  
CGAGATGTCAAAGAGAAGCTGTGCTACGTAGCCCTGGACTTTGAGCAGGAGATGGTCAGGGCAGCCGCAT  
CCTCCTCACCGGAACGGAGCTATGAACCTCCTGATGGGCAGGTGATCACCATTGGGAATGAACGCTTCCG  
ATGCCCTGAAGCCATTTCCAGCCTTCTTTCTGGGCATTGAGTCCAGTGGGATCCATGAGACAACCTTC  
AACTCTATCATGAAGTGCATGTGGATATTCGCAAGGATCTCTATGCCAACCCGTGTTATCTGGAGGGA  
GCACCATGTACCCAGGCATTGCTGACAGGATGCAGAAAGAAATCATAACCCTGGCACCCAGCACCATGAA  
AATCAAGATCATAGCTCCCCAGAGCGGAAGTATTCTGTTTGGATTGGGGCTCCATCCTTGCCAGCCTG  
TCCACATTCCAGCAGATGTGGATCAGTAAGCAGGAATATGATGAGGCTGGTCTCCTATCGTTCACAGAA  
AATGTTTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG221858 representing NM\_001017992  
Red=Cloning site Green=Tags(s)

MTDNELSALVVDNGSGMCKAGFGGDDAPRAVFPSPMIGRPRHQVMVGMGQKDCYVGDEAQS KRGLTLKY  
 PIEHGVTNWDDMEKIWHYHTFYNELRVAPDEHPILLTEAPLNPKINREKMTQIMFEAFNTPAMYVAIQAV  
 LSLYASGRTTGI VMDSGDGVTHI VPIYEGYALPHAILRLDLAGRDLTDYLMKILTERGYNFTTTAEREIV  
 RDVKEKLCYVALDFEQEMVRAAASSSPERSYELPDGQVITIGNERFRCPEAIFQPSFLGISSGIHETTF  
 NSIMKCDVDIRKDLYANTVLSGGSTMYPGIADRMQKEIITLAPSTMKIKIIAPPERKYSVWIGGSILASL  
 STFQQMWISKQEYDEAGPPIVHRKCF

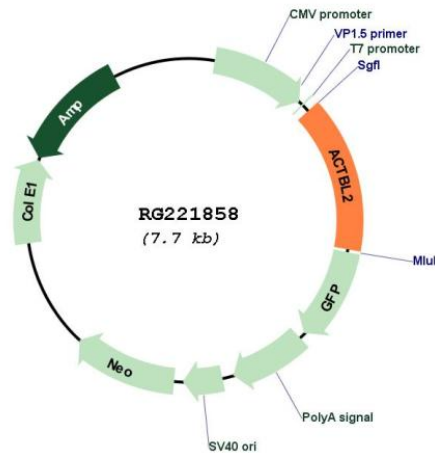
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001017992

<b>ORF Size:</b>	1128 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_001017992.4</a>
<b>RefSeq Size:</b>	2815 bp
<b>RefSeq ORF:</b>	1131 bp
<b>Locus ID:</b>	345651
<b>UniProt ID:</b>	<a href="#">Q562R1</a>
<b>Cytogenetics:</b>	5q11.2
<b>Gene Summary:</b>	Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.[UniProtKB/Swiss-Prot Function]