

Product datasheet for **MG205841**

Actg2 (BC002042) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Actg2 (BC002042) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Actg2
Synonyms:	SMGA, ACTA3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205841 representing BC002042 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGTGAAGAAGAGACCACCGCCTTGTGTGACAATGGCTCTGGCCTGTGCAAGGCAGGCTTTGCAG
GAGATGATGCCCCAGGGCTGTCTCCCTCCATTGTGGGCCGCCCTAGACATCAGGGTGTGATGGTGGG
AATGGGCCAGAAAGACAGCTATGTGGGGACGAGGCTCAGAGCAAGCGTGGGATCCTAACTCTCAAGTAC
CCTATTGAACATGGCATCATACCAACTGGGATGACATGGAGAAGATCTGGCACCCTCTTCTACAATG
AGCTTCGAGTAGCACCAGAAGAGCACCCACCCTGCTCACAGAGGCCCCCTAAACCCAAAGCAAACAG
GGAGAAGATGACCCAGATCATGTTGAAACCTTCAATGTCCCTGCCATGTATGTTGCTATTCAGGCTGTG
CTCTCACTCTATGCATCCGGCCGTACCACAGGCATCGTCTGGATTCTGGGGGATGGCGTACCCACAATG
TCCCCATCTATGAGGGCTATGCACTGCCCCATGCCATCATGCGTCTTGACCTGGCTGGACGGGATCTCAC
AGACTACCTCATGAAGATTCTCACAGAAAGAGGCTATTCCTTTGTGACCACAGCTGAGAGAGAAATTGTA
CGAGACATCAAGGAGAAGCTGTGCTATGTAGCCCTGGATTCGAGAATGAGATGGCCACAGCAGCTTCAT
CTTCTCCCTGGAGAAAAGCTACGAGTTGCCTGATGGGCAGGTCACTACTTGGCAACGAAACGCTTCCG
CTGCCCCGAGACCCTCTCCAGCCTTCTTCATTGGCATGGAGTCAGCTGGAATTCATGAAACAACATAC
AATTCATCATGAAGTGTGACATTGACATCCGCAAGATTTGTATGCTAACAAATGTCCTCTGGGGGCA
CTACCATGTACCCTGGCATTGCTGACAGGATGCAGAAGGAAATCACAGCCTTGGCTCCCAGCACCATGAA
GATCAAGATTATCGTCTCTCTGAGCGGAAGTACTCAGTCTGGATTGGCGGCTCCATCCTGGCCTCTCTC
TCCACCTTCCAGCAAATGTGGATCAGCAAGCCAGAGTATGATGAGGCAGGGCCCTCCATTGTCCACAGGA
AATGCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG205841 representing BC002042
 Red=Cloning site Green=Tags(s)

MCEEETALVCDNGSGLCKAGFAGDDAPRAVFPISIVGRPRHQVMVGMGQKDSYVGDEAQSKRGILTLKY
 PIEHGII TNWDDMEKIWHHSFYNELRVAPEEHPTLL TEAPLNPKANREKMTQIMFETFNVPAMYVAIQAV
 LSLYASGRTTGIVLDSGDGVTHNVPIYEGYALPHAIMRLDLAGRDLTDYLMKIL TERGYSFVTTAEREIV
 RDIKEKLCYVALDFENEMATAASSSSLEKSYELPDGQVITIGNERFRCPETLFPQSFIGMESAGIHETTY
 NSIMKCDIDIRKDLYANNVLSGGTTMYPGIADRMQKEITALAPSTMKIKIIAPPERKYSVWIGGSILASL
 STFQQMWISKPEYDEAGPSIVHRKCF

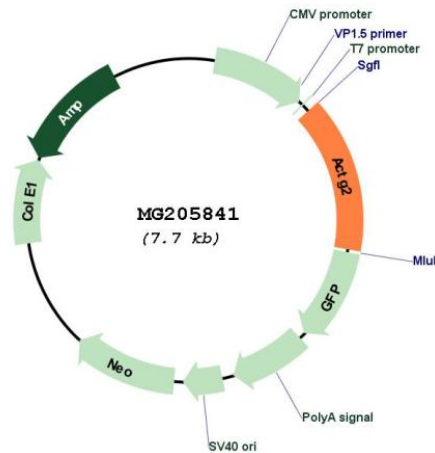
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC002042

ORF Size:	1130 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:	<ol style="list-style-type: none">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:	BC002042 , AAH02042
RefSeq Size:	1319 bp
RefSeq ORF:	1130 bp
Locus ID:	11468
Cytogenetics:	6 35.94 cM
Gene Summary:	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]