

Product datasheet for **MG209147**

Swap70 (NM_009302) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Swap70 (NM_009302) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Swap70
Synonyms:	70kDa; AV235546
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209147 representing NM_009302
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGGGGCTTGAAGACGAAGTCTCAAAGCCATTTGGCAGCCTTACCGCGCTCGACCTGGACCGCA
 GCGGCAAGGTCTCCAAGTCGCAACTCAAGTCTTTCCATAACCTGTGCACGGTCTGAAGTTCCACA
 TGACCCGTTGCCCTTGAGGAGCACTTTAGGGATGACGATGAGGGGCTGTCTCCAATCAGGGCTACATG
 CCATATTTAAACAAGTTCATTTTGGAAAAGTCCAAGACAACCTTGACAAGATTGAATCAATAGAAATGT
 GTTGGACACTTTGTGCAAGAAAACCTCACAAGAGTCTCTACTATTACAGAAGATGATGCATTTAA
 AGTGTGGTCACTTTTCAACTTTTGTGACAGGACAAGTATCCACTAATTATTGTGCCAGAAGAGATTGAA
 TACCTGCTTAAGAAGCTTACAGAAGCTATGGGAGGAGTTGGCAACAAGAACAATTTGAACATTACAAA
 TAAACTTTGATGACAATAAAGATGGCCTTCTGCATGGGAACCTATTGAGCTAATTGGGAATGGACAGTT
 TAGCAAGGGCATGGACCGTCAGACCGTATCTATGGCCATTAACGAAGTCTCAATGAGCTTATTTTATGAT
 GTATTGAAGCAGGGTTACATGATGAAGAAAGGTACAAAACGGAAAACTGGACTGAGCGCTGGTTTGTAT
 TAAAACCAACATAATTTCTACTATGTGAGCGAGGATCTGAAAGATAAGAAAGGAGACATCCTGCTGGA
 TGAAACTGCTGTGTGGAGTCTCTGCCTGACAAAGATGGAAGAAATGTCTTTTCTAATAAAATGCTTT
 GATAAGACCTTTGAAATCAGTGCCTCAGATAAGAAGAAGAAACAAGAATGGATTACAGCCATTTACTCCA
 CCATCCATCTGTTGAAGCTGGGCAGCCCCACACACAAGGAAGCCCGCAGCGTCGGAAGAGAGCTCCG
 AAGGAAGCTGTAGCCGAGCAGGAGGAGCTGGAGCGGCAGATGAAGGAACCTCAAGCCCAATGAAAAC
 AAGCAACAGGAGCTGGAAGCGTGAGGAAGAACTGGAGGAAGCAGCCTCTCGTGGCAGACGAGGAAA
 AGAAACGCTTGCAGACTCAGGTGGAGCTACAGACCAGTTACAGCAGGAGCTGGAGCGGAGAAGCTGAT
 CAGACAGCAGATGGAGGAGCAGGTTGCCAGAAGTCTCCGAACCTGGAGCAGTATCTGCAGCGAGTTCCGG
 GAGCTGGAAGACATGTACCTAAAGCTGCAGGAGGCTCTTGGAGCAGAGGCAGGCCCGGCAGGATGAAG
 AGACTGTGCGCAAGCTTACAGCCAGGTTGCTGGAGGAAGAGTCTTCTAAGAGGGCAGAGCTGGAAGAGTG
 GCACCTGGAGCAGCAGCAGGCCATTAGACAACAGAGGCGGAGAAGCAGGAGCTGGAACAGCAGCGTGTG
 ATGAAGGAGCAGGCATTGAGGAGGCCATGGCACAGCTGGAACAGTTGGAGTTGGAGCGGAAGCAGGCC
 TGGAGCAGTATGAGGGAGTTAAAAGAAGCTAGAGATGGCAACACATATGACCAAGAGCTGGAAGGACAA
 AGTGGCCCATCATGAGAGATTAATACGATTGATAGAACCAGGTTCCAAGAACCCTCATCTGATCACCAAC
 TGGGACCCGAGCGTTACCCAGCAGAGCTCGAGGAGAGAGAAGAGCTGGAAGAGAGAAGACCA
 CAGAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG209147 representing NM_009302
 Red=Cloning site Green=Tags(s)

MRGLKDELLKAIWHAFTALDLDRSGKVSQSLKVL SHNLCTVLKVPHPVVALEEHRDDDEGPVSNQGYM
 PYLNKFILEKVDNFDKIEFNRCWTL CVKKNLTKSPLLITEDDAFKVWVIFNFLSEDKYPLIIVPEEIE
 YLLKKLTEAMGGWQQEQFEHYKINFDDNKDGLSAWELIELIGNGQFSKGMDRQTVSMINEVFNELLID
 VLKQGYMMKKGHRKNWTERWFLKPNII SYVVSEDLKDKKGDILLDENCCVESLPDKDGKKCLFLIKCF
 DKTFEISASDKKKKQEWIQAIYSTIHLKLGSPPPHKEARQRRELRRKLLAEQEELERQMKELQAANEN
 KQQELESVRKKLEEAASRAADEKKRLQTQVELQTRFSTELEREKLI RQQMEEQVAQKSSELEQYLQVRV
 ELEDMYLKLQEALDERQARQDEETVRKLQARLLEEESSKRAELEKWHLEQQQAIQTTEAEKQEQQRV
 MKEQALQEAMAQLEQLELERQALEQYEGYKKLEMATHTKSWKDKVAHHERLIRLIEPGSKNPHLITN
 WGPAAFTQAELEEREKSWKEKKTTE

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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:	NM_009302.2 , NP_033328.2
RefSeq Size:	3998 bp
RefSeq ORF:	1758 bp
Locus ID:	20947
UniProt ID:	Q6A028
Cytogenetics:	7 57.7 cM
Gene Summary:	Phosphatidylinositol 3,4,5-trisphosphate-dependent guanine nucleotide exchange factor (GEF) which, independently of RAS, transduces signals from tyrosine kinase receptors to RAC. It also mediates signaling of membrane ruffling. Regulates the actin cytoskeleton as an effector or adapter protein in response to agonist stimulated phosphatidylinositol (3,4)-bisphosphate production and cell protrusion (By similarity).[UniProtKB/Swiss-Prot Function]