

## Product datasheet for **MR209147**

### Swap70 (NM\_009302) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Swap70 (NM_009302) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Swap70
Synonyms:	70kDa; AV235546
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR209147 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGGGGCTTGAAGACGAACTGCTCAAAGCCATTTGGCAGCCTTCACCGCGCTCGACCTGGACCGCA  
 GCGGCAAGGTCTCCAAGTCGCAACTCAAGTCTTTCCATAACCTGTGCACGGTCTGAAGTTCCACA  
 TGACCCGTTGCCCTTGAGGAGCACTTTAGGGATGACGATGAGGGGCTGTCTCCAATCAGGCTACATG  
 CCATATTTAAACAAGTTCATTTTGGAAAAGTCCAAGACAACCTTGACAAGATTGAATCAATAGAAATGT  
 GTTGGACACTTTGTGCAAGAAAACTCACAAGAGTCTCTACTATTACAGAAGATGATGCATTTAA  
 AGTGTGGTCACTTTCACTTTTGTGACAGGACAAGTATCCACTAATTATTGTGCCAGAAGAGATTGAA  
 TACCTGCTTAAGAAGCTTACAGAAGCTATGGGAGGAGTTGGCAACAAGAACAATTTGAACATTACAAA  
 TAACTTTGATGACAATAAAGATGGCCTTCTGCATGGGAACCTATTGAGCTAATTGGGAATGGACAGTT  
 TAGCAAGGGCATGGACCGTCAGACCGTATCTATGGCCATTAACGAAGTCTCAATGAGCTTATTTTATGAT  
 GTATTGAAGCAGGGTTACATGATGAAGAAAGGTACAAAACGGAAAACTGGACTGAGCGCTGGTTTGTAT  
 TAAAACCAACATAATTTCTACTATGTGAGCGAGGATCTGAAAGATAAGAAAGGAGACATCCTGCTGGA  
 TGAAAACCTGTGTGGAGTCTCTGCCTGACAAAGATGGAAGAAATGTCTTTTCTAATAAAATGCTTT  
 GATAAGACCTTTGAAATCAGTGCCTCAGATAAGAAGAAGAAACAAGAATGGATTACAGCCATTTACTCCA  
 CCATCCATCTGTTGAAGCTGGGCAGCCCCACACACAAGGAAGCCCGCAGCGTCGGAAGAGCTCCG  
 AAGGAAGCTGTAGCCGAGCAGGAGGAGCTGGAGCGGCAGATGAAGGAACCTCAAGCCCAATGAAAAC  
 AAGCAACAGGAGCTGGAAGCGTGAGGAAGAACTGGAGGAAGCAGCCTCTCGTGGCGGACAGCAGGAAA  
 AGAAACGCTTGCAGACTCAGTGGAGCTACAGACCAGTTTACAGCAGGAGCTGGAGCGGGAAGCTGAT  
 CAGACAGCAGATGGAGGAGCAGGTTGCCAGAAGTCTCCGAACCTGGAGCAGTATCTGCAGCGAGTTCCG  
 GAGCTGGAAGACATGTACCTAAAGCTGCAGGAGGCTCTTGGAGCAGAGAGCAGGCCCGGCAGGATGAAG  
 AGACTGTGCGCAAGCTTTCAGGCCAGGTTGCTGGAGGAAGAGTCTTCTAAGAGGGCAGAGCTGGAAGAGT  
 GCACCTGGAGCAGCAGCAGGCCATTGACACAACAGAGGCGGAGAAGCAGGAGCTGGAACAGCAGCGTGT  
 ATGAAGGAGCAGGCATTGAGGAGGCCATGGCACAGCTGGAACAGTTGGAGTTGGAGCGGAAGCAGGCC  
 TGGAGCAGTATGAGGGAGTTAAAAGAAGCTAGAGATGGCAACACATATGACCAAGAGCTGGAAGGACAA  
 AGTGGCCCATCATGAGAGATTAATACGATTGATAGAACCAGGTTCCAAGAACCCTCATCTGATACCAAC  
 TGGGACCCGAGCGTTACCCAGCAGAGCTCGAGGAGAGAGAAGAGCTGGAAGAGAGAAGACCA  
 CAGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR209147 protein sequence  
 Red=Cloning site Green=Tags(s)

MRGLKDELLKAIWHAFTALDLDRSGKVSQSQKVL SHNLCTVLKVPHPVVALEEHRDDDEGPVSNQGYM  
 PYLNKFILEKVDNFDKIEFNRCWTL CVKKNLTKSPLLITEDDAFKVWVIFNFLSEDKYPLIIVPEEIE  
 YLLKKLTEAMGGWQQEQFEHYKINFDDNKDGLSAWELIELIGNGQFSKGMDRQTVSMINEVFNELILD  
 VLKQGYMMKKGHRKNWTERWFVLKPNII SYYVSEDLKDKKGDILLDENCCEVESLPDKDGKKCLFLIKCF  
 DKTFEISASDKKKQEWIQAIYSTIHLKLGSPPPHKEARQRRKELRRKLLAEQEELERQMKELQAANEN  
 KQQELESVRKKLEEAASRAADEEKRLQTQVELQTRFSTELEREKLI RQQMEEQVAQKSSELEQYLQVRV  
 ELEDMYLKLQEALDERQARQDEETVRKLQARLLEEESKRAELEKWHLEQQQAIQTTEAEKQELEQQRV  
 MKEQALQEAMAQLEQLELERKQALEQYEGVKKLEMATHTKSWKDKVAHHERLIRLIEPGSKNPHLITN  
 WGPAAFTQAELEEREKSWKEKKTTE

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_009302

**ORF Size:** 1758 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:**
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:** 4056 bp

**RefSeq ORF:** 1758 bp

**Locus ID:** 20947

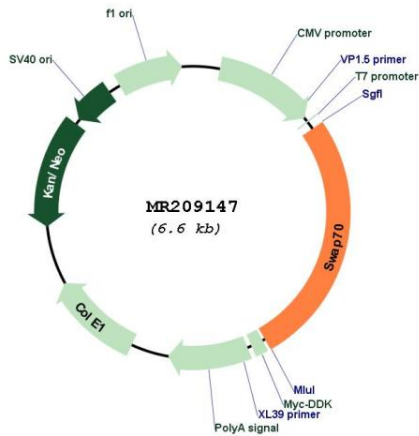
**UniProt ID:** [Q6A028](#)

**Cytogenetics:** 7 57.7 cM

**MW:** 69.1 kDa

**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]

**Product images:**



Circular map for MR209147