

Product datasheet for **RG200074**

SWAP70 (NM_015055) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SWAP70 (NM_015055) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SWAP70
Synonyms:	HSPC321; SWAP-70
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG200074 representing NM_015055
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGGAGCTTGAAGGAGGAGCTGCTCAAAGCCATCTGGCAGCCTTACCCGACTCGACCAGGACCACA
 GCGGCAAGGTCTCCAAGTCCCAGCTCAAGTCTTTCCATAACCTGTGCACGGTCTGAAGTTCTCA
 TGACCCAGTTGCCCTTGAAGAGCACTTCAGGGATGATGATGAGGGTCCAGTGTCCAACCAGGGCTACATG
 CCTTATTTAAACAGTTTCATTTTGGAAAAGGTCCAAGACAACCTTTGACAAGATTGAATTCATAGGATGT
 GTTGGACCCTCTGTGTCAAAAAAACCTCACAAGAATCCCTGCTCATTACAGAAGAAGATGCATTTAA
 AATATGGGTTATTTCAACTTTTATCTGAGGACAAGTATCCATTAATTATTGTGTCAGAAGAGATTGAA
 TACCTGCTTAAGAAGCTTACAGAAGCTATGGGAGGAGTTGGCAGCAAGAACAATTTGAACATTAAAA
 TCAACTTTGATGACAGTAAAAATGGCCTTCTGCATGGGAACCTATTGAGCTTATTGAAATGGACAGTT
 TAGCAAAGGCATGGACCGCAGACTGTGTCTATGGCAATTAATGAAGTCTTTAATGAACCTATATTAGAT
 GTGTTAAAGCAGGGTTACATGATGAAAAAGGGCCACAGACGGAAAACTGGACTGAAAGATGGTTTGTAC
 TAAAACCAACATAATTTCTTACTATGTGAGTGAGGATCTGAAGGATAAGAAAGGAGACATTCTCTTGGA
 TGAAAAATTGCTGTGTAGAGTCTTGCTGACAAAGATGGAAGAAGATGCCTTTTTCTCGTAAAAATGTTTT
 GATAAGACTTTTGAAATCAGTGTTCAGATAAGAAGAAGAAACAGGAGTGGATTCAAGCCATTCACTCTA
 CTATTCATCTGTTGAAGCTGGGCAGCCCTCCACCACACAAAGAAGCCCGCCAGCGTCGGAAGAAGTCCG
 GAAGAAGCAGCTGGCTGAACAAGAGGAACTGGAGCGACAAATGAAGGAACCCAGGCCCAACGAAAGC
 AAGCAGCAGGAGCTGGAGGCCGTGCGGAAGAAGTGGAGGAAGCAGCATCTCGTGCAGCAGAAGAGGAAA
 AGAAACGCCTTCAGACTCAAGTGAACCTCAGGCCAGTTTCAAGCAGAGCTGGAAGAGAGAAGCTTAT
 CAGACAGCAGATGGAAGAACAGGTTGCTCAAAAGTCTCTGAACCTGGAACAGTATTTACAGCGAGTACGG
 GAGCTGGAAGACATGTACCTAAAGCTGCAGGAGGCTCTTGAAGATGAGAGACAGGCCCGGAAGATGAAG
 AGACAGTGCAGGAGCTTCAAGCCAGGTTGTTGGAGGAAGAGTCTTCAAGAGGGCTGAACTAGAAAAGTG
 GCACCTGGAGCAGCAGCAGGCCATTAGACAACCGAGGCGGAGAAGCAGGAGTTGGAGAATCAGCGTGT
 CTGAAGGAACAGGCCCTGCAGGAGGCCATGGAGCAGCTGGAGCAGCTTGAAGTGAACGGAAGCAAGCAC
 TTGAGCAGTACGAGGAAGTTAAAAAGAAGCTGGAGATGGCAACTAATAAGACCAAGAGCTGGAAGGACAA
 AGTGGCCCATCATGAAGGATTAATTCGACTGATAGAACCAGGTTCAAAGAACCCTCACCTGATCACTAAC
 TGGGGACCTGCAGCTTTCAGTGCAGCAACTTGAAGAGAGAGAAGAACTGGAAGAGAAAAAGACCA
 CGGAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG200074 representing NM_015055
 Red=Cloning site Green=Tags(s)

MGSLKEELLKAIWHAFTALDQDHSKVSQSQKLVLSHNLCTVLKVPHPVAALEEHFRDDDEGPVSNQGYM
 PYLNRFILKQVQDNFDKIEFNRCWTLKVKNLTKNPLITEEDAFKIWVIFNFLSEDKYPLIIVSEIE
 YLLKKLTEAMGGWQQEQFEHYKINFDDSKNGLSAWELIELIGNGQFSKGMDRQTVSMINEVFNELLID
 VLKQGYMMKKGHRKNWTERWFVLPNIIISYYVSEDLKDKKGDILLDENCVEVSLPKDGGKCLFLVKCF
 DKTFEISASDKKKKQEWIQAIHSTIHLKLGSPPPHKEARQRRELKQQLAEQEELERQMKELQAANES
 KQQELEAVRKKLEEAASRAAEEKRLQTVLQARFSTELEREKLIQQMEEQVAQKSSELEQYLQVRV
 ELEDMYLKLQEALQERQARQDEETVRKLQARLLEEESSKRAELEKWHLEQQQAIQTTEAEKQELQVRV
 LKEQALQEAMEQLEQLELERQALEQYEEYKKLEMATNKTSSWVKVAHHEGLIRLIEPGSKNPHLITN
 WGPAAFTAELEEREKNWKEKTTTE

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_015055

ORF Size: 1755 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_015055.4](#)

RefSeq Size: 4848 bp

RefSeq ORF: 1758 bp

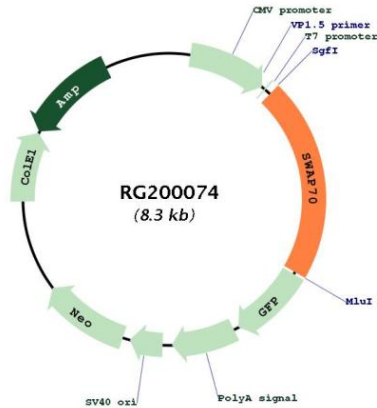
Locus ID: 23075

UniProt ID: [Q9UH65](#)

Cytogenetics: 11p15.4

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 RG200074