

Product datasheet for **SC332288**

ARHGAP22 (NM_001256025) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARHGAP22 (NM_001256025) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARHGAP22
Synonyms:	RhoGAP2; RhoGap22
Vector:	pCMV6-Entry (PS100001)



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Fully Sequenced ORF: >SC332288 representing NM_001256025.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGCTGCCGACAGCTTCCAGCAAAGGAGGACGTTTGCAGCCAGATATTTACCCGCTCCAAAAGCCTA
GTGATGGGGGAGCAGAGCCGGAGCCCTGGGCGGATGCCGTGCCCTCACAGGCTGGGCCCGTGTGAAG
GCGGGCTGGTGAAGAAGCAGAGGAGCATCATGAAGAAGTGGCAGCAGCGCTGGTTTGTGCTGCGTGGG
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TGTGTGGACTTCCGCGGAGCGGGCTCACTGAGGAGGGGCTGTTCCGCATGCCAGGCCAGGCCAAC
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GGAAGCTTGACTGTTGGGGCAAAAGGTGCCAGGGCCCCAAAGTAA
  
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Restriction Sites: Sgfl-Mlul

ACCN: NM_001256025

Insert Size: 2115 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001256025.2](#)

RefSeq Size: 2712 bp

RefSeq ORF: 2115 bp

Locus ID: 58504

UniProt ID: [Q7Z5H3](#)

Cytogenetics: 10q11.22-q11.23

MW: 77.5 kDa

Gene Summary: This gene encodes a member of the GTPase activating protein family which activates a GTPase belonging to the RAS superfamily of small GTP-binding proteins. The encoded protein is insulin-responsive, is dependent on the kinase Akt and requires the Akt-dependent 14-3-3 binding protein which binds sequentially to two serine residues. The result of these interactions is regulation of cell motility. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]
Transcript Variant: This variant (2) uses an alternate 5' exon and thus differs in the 5' UTR and 5' coding region, and uses an alternate in-frame splice site in the 5' coding region, compared to variant 1. The resulting isoform (2) is shorter and has a distinct N-terminus, compared to isoform 1. Variants 2 and 10 both encode the same isoform (2).