

Product datasheet for **RG228497**

ARHGAP25 (NM_001166277) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARHGAP25 (NM_001166277) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ARHGAP25
Synonyms:	HEL-S-308; KAIA0053
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG228497 representing NM_001166277
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCTAAAATTGCCAAGGAAGTGGGATTTCAACCTGAAAGTGGAGGCTGCGAAAATAGCTCGGTCAA
 GGAGTGTGATGACTGGCGAGCAGATGGCTGCCTTCCATCCATCGTCCACCCCAACCCGCTGGAGAGGCC
 CATCAAGATGGGCTGGCTGAAGAAGCAGAGGTCCATCGTGAAGAAGTGGCAGCAGAGGTACTTTGTGCTG
 AGGGCGCAGCAGCTCTACTACTACAAGGATGAAGAGGACACGAAGCCCCAGGGCTGCATGTATCTACCAG
 GATGTACAATCAAGGAGATCGCCACAAACCCAGAAGAAGTGGGAAGTTTGTCTTTGAAATCATTCCAGT
 GTTTGGCCAGCGCTTGGATGAGACTGTGGCCTATGAACAGAAATTCGGCCCCATCTGGTCCCCATCCTG
 GTGGAGAAATGTGCAGAGTTCATCCTGGAGCACGGCCGGAATGAAGAGGGCATCTCCGCTGCCTGGGC
 AGGACAACCTGGTGAAGCAGCTGAGAGACGCTTTTGTGCTGGGAGCGGCCCTCTTTGACAGAGACAC
 AGATGTGCACACTGTGGCTTCCCTGTTAAAGCTCTACCTCGAGACCTCCAGAGCCCGTGGTTCCTGG
 AGCCAGTACGAAGGGTTCCTGCTCTGTGGCAGCTCACGAATGCGGATGAGGCAAAGGCTCAGCAGGAGT
 TGATGAAGCAGCTCTCCATCCTTCTCGTGACAACATATAGTCTCCTGAGCTACATCTGCAGTTCCTACA
 TGAAATACAGCTGAAGTGTGCTGTTAACAAGATGAGTGTGGACAACCTGGCTACTGTGATTGGTGTGAAT
 CTCATCAGGTCGAAGGTCGAAGACCCCTGCCGTGATCATGAGAGGGACTCCTCAGATCCAAAGAGTGTGA
 CTATGATGATCAGAGACCATGAAGTCTCTTCCCAAGTCCAAGGATATACCCCTGTACCCCTGCCCA
 GAAAAATGACCCCAAGAAAGTCCAGTGGCCCGAAGCTCTGTAGGCTGGGATGCCACTGAAGACCTCCGA
 ATTTCTAGGACAGACAGCTTTCAGTAGCATGACAAGCGACTCTGATACAACCAGCCCCACCGGACAGCAGC
 CGAGCGATGCGTTTTCCGGAGGACAGCAGCAAAGTACCCAGGAAAAGCCAGGAGACTGCAAAATGCAATC
 TCGTAAAAGGACTCAAACACTCCCTAACCGAAAATGTTTTCTTGACATCAGCTTTTCAGGGTGCCAACAGC
 AGCAAAATGGAGATCTTTAAAAATGAATTCGGTGCCTTCTCAGAGGCTAAGGCAGGGGAAGGGCACA
 GGAGAACGATGTCTCAAGACTTGCGCCAATTTCTGACTCCCAACGGACTTCCACCTACGATAACGTCCC
 TTCCCTGCCAGGTCCTTGGGAGGAAGCCAGTGCCTCTTCCCAAGCCTGTGACTCCAAGGGAGAT
 ACTCTTGCCAGTCCAACCTCTGAAACTGGGCTGGAAAAAAGAACTCTGGAGAAGAGGAAATGATTCTT
 TGCAGAGGATGGTCCAAGAGCTACGAAAGGAAATAGAAACACAGAAGCAAATGTATGAGGAACAGATTAA
 AAACCTTGAGAAGGAAAATATGACGTTTGGGCTAAAGTGGTGGGCTCAATGAAGAAGTGGAGAAGGAA
 AAGAAGAAGTCTGCAGCCCTAGAGATCAGCCTCCGCAACATGGAGCGCTCCCGGGAGGATGTTGAGAAGA
 GGAACAAGGCCTTGAAGAAGAAGTCAAGGAATTTGCAAAATCCATGAAGGAACCAAGACCGAGGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG228497 representing NM_001166277
 Red=Cloning site Green=Tags(s)

MSLKLPRNWFNLKVEAAKIARSRVMTGEQMAAFHPSSTPNPLERPIKMGWLKKQRSIVKNWQRYFVL
 RAQQLYYYKDEEDTKPQGCMYLPGCTIKEIATNPEEAGKFVFEIIPVFGQRLDETVAYEQKFGPHLVPII
 VEKCAEFILHGRNEEGIFRLPGQDNLVKQLRDAFDAGERPSFDRDTHVTVASLLKLYLRDLPEPVVW
 SQYEGFLLCGQLTNADEAKAQELMKQLSILPRDNYSLLSYICRFLHEIQLNCAVNKMSVDNLATVIGVN
 LIRSKVEDPAVIMRGTPQIQRVMTMMIRDHEVLPKSKDIPLSPPAQKNDPKKAPVARSSVGDATEDLR
 ISRTDSFSSMTSDSTTSPTGQQPSDAFPEDSSKVPREKPGDWKMQSRKRTQTLNPKCFLTSAFQGAN
 SKMEIFKNEFWSPSSEAKAGEGHRRTMSQDLRQLSDSQRSTYDNPVSLPGSPGEEASALSSQACDSKGD
 TLASPNETGPGKNSGEEIDSLQRMVQELRKEIETQKQMYEEQIKNLEKENYDVAWVRLNEELEE
 KKKSAALEISLRNMERSREDVEKRNKALEEEVKEFVKSMKEPKTEA

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001166277

ORF Size: 1818 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_001166277.2](#)

RefSeq Size: 2900 bp

RefSeq ORF: 1821 bp

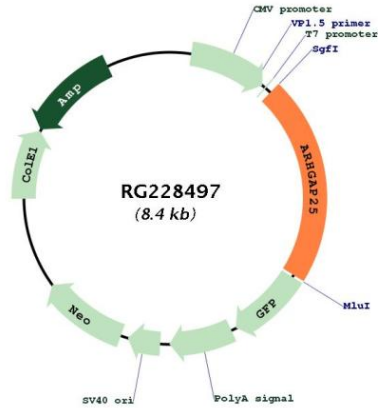
Locus ID: 9938

UniProt ID: [P42331](#)

Cytogenetics: 2p13.3

Gene Summary:

ARHGAPs, such as ARHGAP25, encode negative regulators of Rho GTPases (see ARHA; MIM 165390), which are implicated in actin remodeling, cell polarity, and cell migration (Kato and Kato, 2004 [PubMed 15254788]).[supplied by OMIM, Mar 2008]

Product images:


Circular map for RG228497