

Product datasheet for **RG228513**

ARHGAP25 (NM_001166276) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARHGAP25 (NM_001166276) 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)



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ORF Nucleotide Sequence:

>RG228513 representing NM_001166276
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCCCTCGGTCACTCGGCCTGTCTGTCTCTATAGCTCGGTCAAGGAGTGTGATGACTGGCGAGC
 AGATGGCTGCCTCCATCCATCGTCCACCCCAACCCGCTGGAGAGGCCATCAAGATGGCTGGCTGAA
 GAAGCAGAGGTCCATCGTGAAGAACTGGCAGCAGAGTACTTTGTGCTGAGGGCGCAGCAGCTCTACTAC
 TACAAGGATGAAGAGGACACGAAGCCCCAGGGCTGCATGTATCTACCAGGATGTACAATCAAGGAGATCG
 CCACAAACCCAGAAGAAGCTGGGAAGTTTGTCTTTGAAATCATTCCAGCCTCATGGGACCAGAATCGCAT
 GGGACAGGACTCCTATGTCTCATGGCCAGCTCTCAGGCGGAGATGGAGGAGTGGTTAAATTCCTCAGG
 AGAGTTGTGGCACACCCTGTGGAGCAGTGTGGCCAGCGCTTGGATGAGACTGTGGCCTATGAACAGA
 AATTCGGCCCCATCTGGTGGCCATCCTGGTGGAGAAATGTGCAGAGTTCATCCTGGAGCACGGCCGGAA
 TGAAGAGGGCATCTTCCGTCTGCCTGGCAGGACAACCTGGTGAAGCAGCTGAGAGACGCTTTTGATGCT
 GGGGAGCGGCCCTCCTTTGACAGAGACACAGATGTGCACACTGTGGCTTCCCTGTTAAAGCTCTACCTCC
 GAGACCTCCCAGAGCCCCTGGTTCCTGGAGCCAGTACGAAGGGTTCCTGCTCTGTGGGCAGCTCACGAA
 TGCGGATGAGGCAAAGGCTCAGCAGGAGTTGATGAAGCAGCTCTCCATCCTTCTCGTGACAACTATAGT
 CTCCTGAGCTACATCTGCAGGTTCTACATGAAATACAGCTGAACTGTGCTGTTAACAAGATGAGTGTGG
 ACAACCTGGTACTGTGATTGGTGTGAATCTCATCAGGTCGAAGGTCGAAGACCTGCCGTGATCATGAG
 AGGGACTCCTCAGATCCAAGAGTGTGACTATGATGATCAGAGACCATGAAGTCCTTCCCAAGTCC
 AAGGATATACCCCTGTACCCCTGCCAGAAAAATGACCCCAAGAAAGCTCCAGTGGCCGAAGCTCTG
 TAGGCTGGGATGCCACTGAAGACCTCCGAATTTCTAGGACAGCAGCTTCCAGTGCATGACAAGCAGACT
 TGATACAACAGCCCCACCGGACAGCAGCCGAGCGATGCGTTTCCGGAGGACAGCAGCAAAGTACCCAGG
 GAAAAGCCAGGAGACTGGAAAATGCAATCTCGTAAAAGGACTCAAACACTCCCTAACCGGAAATGTTTCT
 TGACATCAGCTTTTCCAGGTGCCAACAGCAGCAAAATGGAGATCTTTAAAAATGAATTCGGTCGCCTTC
 CTCAGAGGCTAAGGCAGGGGAAGGGCACAGGAGAACGATGTCTCAAGACTTGGCCAACTTTCTGACTCC
 CAACGGACTTCCACCTACGATAACGTCCCTTCCCTGCCAGGGTCCCCTGGGGAGGAAGCCAGTGCCTCT
 CTTCCCAAGCCTGTGACTCCAAGGGAGATACTCTGCCAGTCCAACTCTGAACTGGGCCTGGAAAAA
 GAACTCTGGAGAAGAGGAAATGATTCTTTCAGAGGATGGTCCAAGAGCTACGAAAGGAAATAGAAACA
 CAGAAGCAAATGTATGAGGAACAGATTAACAACTTGGAGAAGGAAATATGACGTTTGGCTAAAGTGG
 TGAGGCTCAATGAAGAACTGGAGAAGGAAAGAAAGTCTGCAGCCCTAGAGATCAGCCTCCGCAACAT
 GGAGCGCTCCCGGAGGATGTTGAGAAGAGGAACAAGGCCTTGGAGAAGAAAGTCAAGGAATTTGTCAAA
 TCCATGAAGGAACCAAGACCGAGGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG228513 representing NM_001166276
 Red=Cloning site Green=Tags(s)

MSLGQSACLFLSIARSRVMTGEQMAAFHPSSTPNPLERPIKMGWLKKQRSIVKNWQRYFVLRQQQLYY
 YKDEEDTKPQGCMYLPGCTIKEIATNPEEAGKFVFEIIPASWDQNRMGQDSYVLMASQAEME EWKFLR
 RVAGTPCGAVFGQRLDETVAYEQKFGPHLVPILVEKCAEFIEHGRNEEGIFRLPGQDNLVKQLRDAFDA
 GERPSFDRD TDVHTVASLLKLYLRDLPEPVVPWSQYEGFLLCGQLTNADEAKAQELMKQLSILPRDNYS
 LLSYICRFLHEIQLNCAVNKMSVDNLATVIGVNLIRSKVEDPAVIMRGTPIQVRVMTMMIRDHEVLFPKS
 KDIPLSPPAQKNDPKKAPVARSSVGDATEDLRSRTDFSSMTSDSDTTSPTGQPSDAFPEDSSKVP
 EKPGDWMQSRKRTQTLPNRKFLTSAFQGANSSKMEIFKNEFWSPSEAKAGEGHRRTMSQDLRQLSDS
 QRTSTYDNVPSLPGSPGEEASALSSQACDSKGDTLASPNSSETGPGKNSGEEEIDSLQRMVQELRKEIET
 QKQMYEEQIKNLEKENYDVWAKVVRLNEELEKEKKKSAALEISLRNMERSREDVEKRNKALEEEVKEFVK
 SMKEPKTEA

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_001166276

ORF Size: 1917 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_001166276.2](#)

RefSeq Size: 2960 bp

RefSeq ORF: 1920 bp

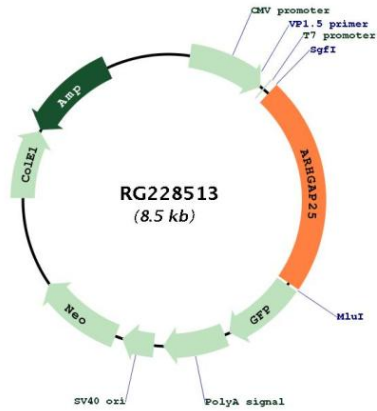
Locus ID: 9938

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 (Katoh and Katoh, 2004 [PubMed 15254788]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RG228513