

Product datasheet for **RG217414**

ARHGAP25 (NM_014882) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARHGAP25 (NM_014882) 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:

>RG217414 representing NM_014882
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCCTCGGTCACTCGGCCTGTCTGTTCTCTCTATAGCTCGGTCAAGGAGTGTGATGACTGGCGAGC
 AGATGGCTGCCTTCCATCCATCGTCCACCCCAACCCGCTGGAGAGGCCCATCAAGATGGGCTGGCTGAA
 GAAGCAGAGGTCCATCGTGAAGAACTGGCAGCAGAGGTACTTTGTGCTGAGGGCGCAGCAGCTCTACTAC
 TACAAGGATGAAGAGGACACGAAGCCCCAGGGTGCATGTATCTACCAGGATGTACAATCAAGGAGATCG
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 GAGACCTCCCAGAGCCCCTGGTTCCTGGAGCCAGTACGAAGGGTTCCTGCTCTGTGGGAGCTCACGAA
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 CTCCTGAGCTACATCTGCAGGTTCTACATGAAATACAGCTGAAGTGTGCTGTTAACAAGATGAGTGTGG
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 AGGGACTCCTCAGATCCAAAGAGTGATGACTATGATGATCAGAGACCATGAAGTCCTCTTCCCAAGTCC
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 GAACTCTGGAGAAGAGGAAATGATTCTTTCAGAGGACGGTCCAAGAGCTACGAAAGGAAATAGAAACA
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 TGAAGGCTCAATGAAGAACTGGAGAAGGAAAGAAAGTCTGCAGCCCTAGAGATCAGCCTCCGCAACAT
 GGAGCGCTCCCGGGAGGATGTTGAGAAGAGGAACAAGGCCTTGAAGAAGAGTCAAGGAATTTGTCAAA
 TCCATGAAGGAACCAAGACCGAGGCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

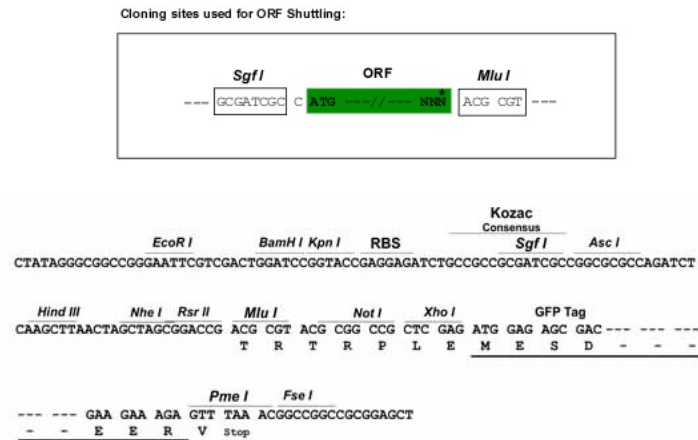
>RG217414 representing NM_014882
 Red=Cloning site Green=Tags(s)

MSLGQSACLFLSIARSRVMTGEQMAAFHPSSTPNPLERPIKMGWLKKQRSIVKNWQQRVFLRAQQLYY
 YKDEEDTKPQGCMYLPGCTIKEIATNPPEAGKFVFEIIPASWDQNRMGQDSYVLMASQAEMEEWVKFLR
 RVAGTPCGAVFGQRLDETVAEQKFGPHLVPILVEKCAEFIEHGRNEEGIFRLPGQDNLVKQLRDAFDA
 GERPSFDRDQDVHTVASLLKLYLRDLPEPVVPSQYEGFLLCGQLTNADEAKAQELMKQLSILPRDNYS
 LLSYICRFLHEIQLNCAVNKMSVDNLATVIGVNLIRSKVEDPAVIMRGTPQIQRVMTMMIRDHEVLFPKS
 KDIPLSPPAQKNDPKKAPVARSSVGWDATEDLRISRTDSFSSMTSDSDTTSPTGQQPSDAFPEDSSKVPR
 EKPQDWMQSRKRTQTLNPKCFLTSAFQGANSSKMEIFKNEFWSPSSEAKAGEGHRRTMSQDLRQLSDS
 QRTSTYDNPVSLPGSPGEEASALSSQACDSKGDTLASPNSETGPGKNSGEEIDSLQRTVQELRKEIET
 QKQMYEEQIKNLEKENYDVWAKVVRLNEELEKEKKKSAALEISLRNMERSREDVEKRNKALEEEVKEFVK
 SMKEPKTEA

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014882

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.

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

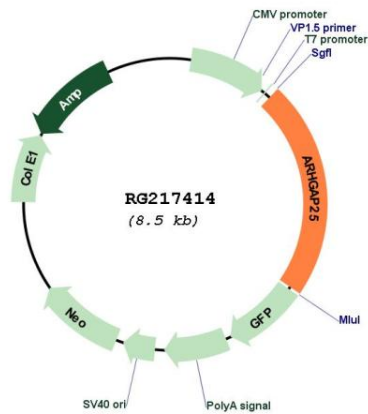
RefSeq: [NM_014882.2](#), [NP_055697.1](#)

RefSeq Size: 2957 bp

RefSeq ORF: 1917 bp

Locus ID:	9938
UniProt ID:	P42331
Cytogenetics:	2p13.3
Domains:	RhoGAP, PH
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 RG217414