

Product datasheet for RC207973

RALGAPB (NM_020336) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RALGAPB (NM_020336) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RALGAPB
Synonyms:	KIAA1219; RalGAPbeta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207973 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTA
ACTCTGAGTGGAGGTC
ACTGCATTTGGT
GATTCAGAATGATCAAGGCCATACCAGTGTGCTGCACA
GCTATCCAGAGAGCGTTGGACGAGAGGTGGCAAATGCTGTAGTCCGTCCTCTTGGGCAGGTGTTAGGTAC
CCCTTCAGTGGCTGGTAGTGAGAATTTGTTAAAACTGACAAAGAAGTAAATGGACCATGGAAGTAATT
TGCTATGGACTGACCCTCCATTGGATGGAGAGACTGTAAAATATTGCGTTGATGTATACAGACTGGA
TTATGGCTTTAGTGTGGCAAAAGATTCTATTCCATTGCCAGTTATTAAGAGCCTAATCAATATGTTCA
AACTATACTAAAACACCTACAGAATCTTTTTGTACCAAGACAGGAACAGGGTCCAGTCAGATTCGACTA
TGCTTACAGGTCCTGAGAGCCATTCAGAACTGGCCCCTGAGTCACTCTCATGGCCCGAGAAACTTGGG
AAGTCTTACTGTTGTTTCTTCTGCAGATTAACGACATACTTCTGGCCCCACCAACTGTTCAAGGTGGCAT
TGCTGAGAATCTAGCAGAGAAGTTGATTGGTGTCTCTTTGAGGTGTGGTTACTAGCTTGTACTCGGTGC
TTCCCAACACCTCCTTATTGGAAAACAGCCAAGGAGATGGTGGCTAACTGGAGGCATCACCAGCAGTGG
TGGAGCAGTGGAGCAAGGTCATTTGTGCACTCACTTCCAGATTGCTACGCTTTACATATGGTCCTTCATT
TCCTGCATTTAAAGTTCCTGATGAAGATGCCAGTCTGATCCCTCCAGAAATGGATAATGAGTGTGTTGCA
CAGACGTGGTTTTCGTTTTTACACATGTTAAGTAATCCTGTGGATTTGAGTAACCCAGCTATTATAAGT
CTACTCCAAATTCAGGAACAGTTCCTGAATGTGAGCGGAATGCCGCAAGAATTGAATCAGTATCCCTG
CCTTAAACATCTGCCTCAAATATTTTTTTCGTGCCATGCGTGGAATCAGCTGTCTGGTGGATGCATTCCTA
GGTATTTCTAGACCCGATCAGACAGTGTCCCCAACACCCGTGAATAGATTAAGTATGCCTCAAAGTG
CTGCTGTCAGTACCACCCCCACATAACCGGAGGCACCGGGCTGTTACTGTGAATAAGGCCACCATGAA
GACAAGCACAGTTAGTACTGCTCATGCCTCTAAAGTTCAGCACCAGACGTCTCCACCTCTCCTCTGTCA
AGTCCAAATCAGACTAGTTCAGAACCCCGCCACTGCCTGCCCTCGGAGACCAAGGTTAACAGCATCT
TGAATCTCTTTGGATCATGGTTATTTGATGCAGCATTGTTCAGTGTAACTTCATAATGGGATAAACAG
AGACAGCAGCATGACTGCCATTACAACAAGCTAGCATGGAGTTTCGACGGAAAGGGTCACAAATGTCC



[View online »](#)

ACAGACCCATGGTTTCCAATCCTATGTTTGATGCAAGTGAATTTCTGATAACTATGAAGCAGGAAGAG
 CTGAGGCTTGTGGGACACTGTGTAGGATTTTTGTAGCAAGAAGACTGGAGAAGAGATTCTGCCAGCTTA
 TTTATCCAGATTTTACATGCTTTAATTCAGGTTTGCAGATAAATGATTATGTGTGCCATCCTGTCTTG
 GCCAGCGTTATTTCAAATCTCCTCCTTTGTTCTGCTGTGACTTGAAAGGGATTGATGTTGTGGTTCCCT
 ACTTTATTTACAGCTCTTGAACCATTTTGCTGACAGAGAAGCTCTCAAAATTCAAAAGCTATGTAATCC
 AACAGAATTGCGAAGATCCTCCATTAATATCCTGCTTTCTTTGTTGCCCTCCCTCATCATTTTGGCACA
 GTCAAATCTGAGGTGGTCTGGAAGGAAAGTTTAGTAACGATGACAGCTCTTTATGATAAACCAATAA
 CTTTTCTGTCCCTGAAGTTGAGACTTGTGAATATATTAATAGGTGCCTTGCAAAGTCAAACGGACCCCAA
 CAACACCCAAATGATATTAGGGCAATGTTAAATATTGTTCAAGATTGACACTTTTGAAGCCATTGGT
 TGCCAGATGGAGATGGGTGGTGGAGAAAATAACCTGAAGAGTCATAGTCGCACCAATAGTGGTATTAGTT
 CAGCAAGTGGTGAAGCACGGAGCCACGACTCCCGATAGTGAGAGACCTGCTCAAGCTCTCTTAAGAGA
 TTATGCTCTTAATACAGATTGAGCTGCTGGCTCCTGATTCGCAGCATTATCTCGTCACCCAAAGACTC
 AACTCCCAGTGGCGCAAGACATGAGCATATCACTGGCAGCTCTGGAGCTCCTCTCTGCCCTTGCAAAGG
 TAAAAGTGATGGTTGACTCAGGAGACCGGAAGCGAGCCATCAGTTCTGTGTGCACCTACATTGTTTATCA
 GTGTAGTCGGCCAGCTCCTTTACTCCAGGGATCTGCACTCCATGATAGTGGCAGCTTTTCAGTGTCTC
 TGTGTCTGGCTGACAGAGCACCTGATATGCTTGTGATAAAGGACTGCCTTAAGGAAGTACTGGAGATTG
 TGAAGTGGGTATCTCAGGAAGTAAAGTCCAAGAACAATGAGCAAGAGGTCAAGTCAAAGGAGATAAGGA
 GCCAAACCTGCATCTATGAGGGTAAAGGATGCTGCTGAAGCCACCCTAACATGCATTATGCAGTTGCTC
 GGCGCATTTTCTTACCTAGTGGTCTGCTCCTCTCTTGTAGTCTTGTGAATGAGACCACTTTGATTAAT
 ACTCCAGGCTGCCAACCAATAACAAGCATAGTTTCCGGTACTTTGTCTTGGATAACAGTGTATCCTGGC
 AATGCTGGAACAACCTCTTGGAAATGAGCAGAATGATTTTTCCCTCTGCACTGTGCTGGTCCGGGGA
 ATGTCTGGAAGACTTGTGGGCACAACAGCTTTGTCTTTACCCAGAGGAGCAAAGCAAATCAGAAGC
 TTTTGTACCTGAACCTCGCCAGTTCCTAAAAATGACGTTGGATTTAAATATTCTGTGAACATCGGCC
 ATTTCTGAAGAGGTGGACAAGATTCCTTTTGTGAAAGCAGATCTCAGCATTCCAGATTTGCATGAAATA
 GCACTGAAGAATTAGAAGAGAGACACGAAAAATTAAGGAGTGGCATGGCCAGCAGATTGCTTATGAAA
 TACACCTTGAGCAACAGAGTGAAGGAAATGCAGAAGAGAAGTTTTCTGACCCAGTTACGGATTGCAA
 GCCCCCGCTCCTGCCAGGAATTCAAACAGCCCGCCTTTTTCTCTCACACTTTGGATTTTTGTCTTA
 GAAGCACTGAAGGAACCTGCAAATAGTCGTCTACCTCCTCACCTATTGCACTTGATTCCACGATACCTG
 GATTTTTGATGACATTGGGTATCTGGATCTTGGCATGTCGCTCTTTGACACAGTTTTTATTTTCTA
 TATGAAGCCAGTCAAAAACGAACCAAGAGATTTTAAAGAATGTGGAGTCTCCAGAAGTTCAGCCA
 CATTTCCTAGAATTTTTGCTTTCCCTGGCTGGTCAAGATGTGGGCAGACACCCTGGTTGGACTGGGC
 ATGTTTCTACCAGTTGGTCTATTAATTGTTGTGATGATGGTGAAGGATCTCAACAAGAAGTATTCCTC
 TGAAGATATTGGAGCTAGCATTTTCAATGGACAGAAGAAGGTGCTGTATTATGCTGATGCCCTTACAGAA
 ATTGCTTTTGTGGTTCTTCTCCTGTGGAGTCTTAACCTGATTTCATTGGAAGTAAACATCTCGGACCAAG
 ATAGTGATTCAAATATGGATCTTATGCCAGGAATCTGAAACAGCCATCCCTGCACTTGAGCTTTTCCC
 CAATCATAACAGACAATCTTAATTCCTCACAGAGGCTCAGTCCCAGTTCAGAATGAGGAAGCTGCCTCAG
 GGTCCGCTGTCTCCCTTGGACCTGAGACAAGAGTTTCTGTAGTCTGGGTGGAACGCTATGATGATA
 TAGAAAATTTCCCTCTCAGAGCTGATGACAGAGATCAGTACTGGTGTGAAACTACTGCAAATAGTAG
 CACTTCACTGAGATCTACAACCTTGAAGGAAAGTTCCCTGTCATCTTCCACCCTTTAAACCTGGA
 TTATCCGGATAAAAATTCAGGAGCCACTGGAAAATTTAATATGGTATCCCTCTTGTGGATGGATGA
 TTGTCAGCAGGCGAGCTCTTGGCTTCTGGTGAAGCAGACTGTAATTAACATTTGTAGAAGAAAGAGACT
 GGAAAGTACTCTACAGTCCCCCATGTCCGCCGAAACAGAAAATCACCGACATTGTCAACAAGTAC
 CGGAACAAGCAGCTGGAGCCAGATTTTACTTCACTTTTCCAGGAGGTTGGACTCAAGAAGTGCAGTT
 CT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207973 protein sequence
 Red=Cloning site Green=Tags(s)

MYSEWRSLHLVIQNDQGHTSVLHSYPESVGREVANAVVRPLGQVLGTPSVAGSENLLKTDKEVKWTMEVI
 CYGLTLPLDGETVKYCDVYTDWIMALVLPKDSIPLPVIKEPNQYVQTILKHLQNLVPRQEQGSSQIRL
 CLQVLRATQKLARESSLMARETWEVLLLFLLQINDILLAPPTVQGGIAENLAEKLGVLFEVWLLACTRC
 FPTPPYWK TAKEMVANWRHHPAVVEQWSKVICALTSRLLRFTYGPSFPAFKVPDEEDASLIPPEMDNECVA
 QTWFRFLHMLSNPVDLSNPAIISSTPKFQEQFLNVSGMPQELNQYPLKHLQPQIFFRAMRGISCLVDAFL
 GISRPRSDSAPPTPVNRLSMPQSAAVSTTPPHNRRHRAVTVNKATMKTSTVSTAHASKVQHQTSSTSPLS
 SPNQTSSEPRPLPAPRRPKVNSILNLFSGSWLFAAFVHCKLHNGINRDSMTAITTQASMEFRRKGSQMS
 TDMVSNPMFADSEFPDNYEAGRAEACGTLCRIFCSKKTGEEILPAYLSRFYMLLIQGLQINDYVCHPVL
 ASVILNSPPLFCCDLKGIDVVVPYFISALETILPDRELSKFSYVNPTELRRSSINILLSLLPLPHHFGT
 VKSEVVLGKFSNDDSSSYDKPITFLSLKLRLVNILIGALQTE TDPNNTQMILGAMLNIVQDSALLEAIG
 CQMEMGGGENLKSRSRTNSGSISSASGGSTEPTTPD SERPAQALLRDYALNTDSAAGLLIRSIHLVTQRL
 NSQWRQDMSISLALELLSGLAKVKVMVDSGDRKRAISSVCTYIVYQCSRPAPLHSRDLHSMIVAAFQCL
 CVWLTEHPDMLDEKDCLKEVLEIVELGISGSKSKNNEQEVKYKGDKEPNPASM RVKDAAEATLTCIMQLL
 GAFPSPSPGAPSPCSLVNETTLIKYSRLPTINKHSFRYFVLDNSVILAMLEQPLGNEQNDFFPSVTVLVRG
 MSGRLAWAQQLCLLPRGAKANQKLFVPEPRVPKNDVGFKYSVKHRPFPEEVDKIPFVKADLSIPDLHEI
 VTEELEERHEKLRSGMAQQIAYEIHLEQQSEELQKRSFPDPVTDCPPPPAQEFQTARLFLSHFGFLSL
 EALKEPANSRLPHLIALDSTIPGFFDDIGYLDLLPCRPFDTVFIFYMKPGQKTNQEILKNVSSRTVQP
 HFLEFLLSLGWSVDVGRHPGWTGHVSTWSINCCDDGEGSQQEVISSEDI GASIFNGQKKVLYADALTE
 IAFVVPSPVESL TDSLESNISDQSDSNMDLMPGILKQPSLTLELFPNHTDNLNSSQRLSPSSRMKLPQ
 GRPVPLGPETRVSVVVVERYDDIENFPLSELMTEISTGVETTANSSTSLRSTTLEKEVPVIFIHPLNTG
 LFRIKIQGATGKFNMPIPLVDGMIVSRRALGFLVRQTVINICRRKRLESDSYSPPHVRRKQKITDIYNKY
 RNKQLEPEFYTSLFQEVGLKNCS

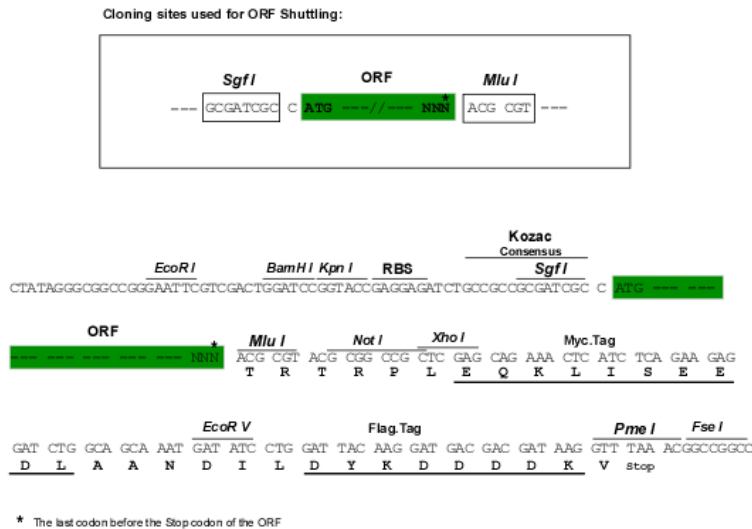
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6819_h07.zip

Restriction Sites:

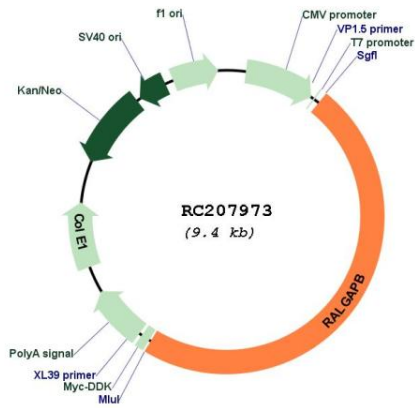
SgfI-MluI

Cloning Scheme:

ACCN:

NM_020336

ORF Size:	4482 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:	<ol style="list-style-type: none">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_020336.1
RefSeq Size:	8683 bp
RefSeq ORF:	4485 bp
Locus ID:	57148
UniProt ID:	Q86X10
Cytogenetics:	20q11.23
MW:	166.8 kDa
Gene Summary:	Non-catalytic subunit of the heterodimeric RalGAP1 and RalGAP2 complexes which act as GTPase activators for the Ras-like small GTPases RALA and RALB.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC207973