

Product datasheet for **RG222454**

RABEP2 (NM_024816) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RABEP2 (NM_024816) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RABEP2
Synonyms:	FRA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG222454 representing NM_024816
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCAGCTGCGCCGGTGGCCGCGGACGACGATGAGCGCGCGCGGCCGGGGCTGCACTGGAGG
 ACTCCCGGTCCCAGGAAGGGGCAAATGGTGAGGCCGAGTCAGGTGAGCTCAGCCGGCTTCGGGCTGAGCT
 GGCAGGCGCCCTGGCAGAAATGGAACCATGAAGGCTGTGGCAGAGGTGAGCGAGAGCACGAAGGCCGAG
 GCTGTGGCTGCGGTGCAGCGCAGTGCCAAAGAGGAGTGGCTCGCTGCAGGCCATCCTGAAAGACTCCA
 TCAGCAGCTATGAAGCCAGATCACCGCCTGAAGCAGGAGCGACAGCAGCAGCAGCAGGACTGTGAGGA
 GAAGGAGCGGGAGCTGGGCCGCTGAAGCAGCTGCTGTCCGGGCTACCCCTGGACTCCCTGGAGAAG
 CAGATGGAAAAGGCCACGAGGACTCGGAGAAGCTGCGGGAGATCGTACTGCCCATGGAAAAGGAGATCG
 AGGAGCTGAAGGCGAAGCTGCTGAGGGCCGAGGAGCTGATTCAGGAGATCCAGAGACGTCCCGGCATGC
 CCCTTCCCTGCACGGCTCCACGGAGTTGCTGCCCTGTCCGGGATCCATCGCCCCGCTGGAGCCTCTG
 GAGGAGCTGAGCGGAGATGGGGTCCAGCCGCTGAGGCCTTCGCTCACAACCTGCGATGACAGCGCCTCCA
 TCTCTCCTTCTCCCTTGGCGGTGGGGTCGGCAGCAGCTCCTCCCTGCCCAAAGCCGCCAGGGCCTGAG
 CCCTGAACAGGAAGAGACGGCCTCGCTGGTGTCTACGGGCACCCTGGTCCCGAGGGCATCTACCTGCC
 CCTCTGGCTACCAGCTCGTCCCAGACACTCAGTGGGAGCAGCTGCAGACAGAGGGCCGACAGCTGCAGA
 AGGACCTGGAGAGCGTCACTCGCAGCGGGACGAGCTCCAAGAGGGCCTGAGACGGAGCAATGAGGACTG
 TGCCAAGCAGATGCAGGTGCTCCTGGCCAGGTCCAGAACTCAGAGCAGCTGTGCGGACCCTGCAAGGG
 ACCGTGAGCCAGGCCAGGAGCGGGTGCAGCTGCAGATGGCGGAGCTGGTCAACCCACAAGTGCCTGC
 ACCATGAGGTAAGCGGTTGAATGAGGAAAACCAAGGGCTCCGGGCCGAGCAGCTGCCATCCTCAGCCCC
 CCAGGGCTCGCAGCAGGAGCAGGGCGAGGAGGAATCACTGCCCAGCTCTGTGCCAGAGCTGCAGCAGCTG
 CTGTGCTGCACGCGCAAGAGGCGAGGGCCGGCTGCAGGCCAGGAGCACGGGGCCGAGCGCTGCGGA
 TCGAGATCGTGACGCTGCGGGAGGCTCTGGAGGAGGAGACAGTGGCCAGGGCCAGCCTGGAGGGGACGCT
 GAGGGTGCAGCGGGAGGAGACAGAGGTGCTGGAGGCTCCTGTGCAGCCTGAGGACAGAGATGGAGCGG
 GTGCAGCAGGAACAGAGCAAGGCCAGCTCCCAGACCTCCTCAGAACAGAGGGCAAGGTGCTGCGGC
 TGCAGGCAGAGCTGGAGACCAGTGCAGGTGCAGAGGGATTCGTGCGACTGTCCAGGCCCTGCAGGT
 GCGCCTAGAGCGGATCCGCCAGGCTGAGACCCTGGAGCAAGTGGCAGCATCATGGATGAGGCGCCACTC
 ACGGACGTCAGGGACATCAAGGACACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG222454 representing NM_024816
 Red=Cloning site Green=Tags(s)

MAAAPVAADDDERRRRPAALEDSRSQEGANGEAESGELSRRAELAGALAEMETMKAVAEVSESTKAE
 AVAAVQRQCQEEVASLQAILKDSISSYEAQITALKQERQQQQDCEEKERELGRLKQLLSRAYPLDSLEK
 QMEKAHEDSEKLREIVLPMKEIEELKAKLLRAEELIQEIQRPRRHAPSLHGSTELLPLSRDPSPPLEPL
 EELSGDGGPAAEAFAHNCDDASISSFSLGGVGSSSSLPQSRQGLSPEQEETASLVSTGTLVPEGIYLP
 PPGYQLVPDTQWEQLQTEGRQLQKDLSEVSRERDELQEGLRSSNEDCAKMQVLLAQVQNSEQLLRTLQG
 TVSQAQERVQLQMAELVTTHKCLHHEVKRLNEENQGLRAEQLPSSAPQGSQQEQGEEESLPSSVPELQQL
 LCCTRQEARARLQAQEHGAERLRIEIVTLREALLEETVARASLEGQLRVQRETEVLEASLCSLRTEMER
 VQQEQSKAQLPDLLSEQRAKVLRLQAELETSEQVQRDFVRLSQALQVRLERIRQAETLEQVRSIMDEAPL
 TDVRDIKDT

TRTRPLE - GFP Tag - V

Restriction Sites:

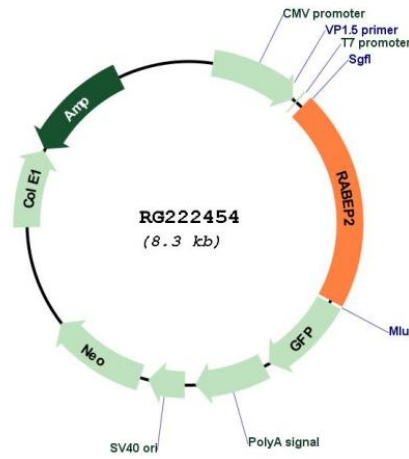
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_024816
 ORF Size: 1707 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_024816.3
RefSeq Size:	2280 bp
RefSeq ORF:	1710 bp
Locus ID:	79874
UniProt ID:	Q9H5N1
Cytogenetics:	16p11.2
Domains:	Rabaptin
Gene Summary:	Plays a role in membrane trafficking and in homotypic early endosome fusion (PubMed:9524116). Participates in arteriogenesis by regulating vascular endothelial growth factor receptor 2/VEGFR2 cell surface expression and endosomal trafficking (PubMed:29425100). By interacting with SDCCAG8, localizes to centrosomes and plays a critical role in ciliogenesis (PubMed:27224062).[UniProtKB/Swiss-Prot Function]