

Product datasheet for **MG208221**

Rabep2 (NM_030566) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Rabep2 (NM_030566) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Rabep2 |
| Synonyms: | 2610011A08Rik; AI462746; Fra |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>MG208221 representing NM_030566
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGGCTGTAGCTGAGGTGAGCGAGAGCACCAAGGCGGAGGCAGTGGTGCAGTGCAGAGACAGTGCC
 AAGAGGAGGTGGCTCCCTGCAGCCATCCTGAAAGACTCCATCAGCAGCTACGAGACCCAGATCGCAGC
 CCTGAAACAGGAGCGGCAGCAGCAACAGCAGGACTTTGAGGAGAAGGATCGAGAGCTGGGCCACCTCAAA
 CAGCTGTGGCCCGGCCACCCCTTTGGACTCCTTGAGAGAAGCAAATGGAAAAGGCTCATGAAGACTCGG
 AAAAGCTTCGAGAGATCGTGTGCCCATGGAGCAGGAGATTACCGAGCTGAAGGGGAAGCTGCAGAGGGC
 GGAAGAGTGTATCAAGAGATCCAGAGACGACCACGGCAGCCTGCCTCCCTGCATGGCTCCACAGAGTTG
 CTCCTCTGTGAGGAACCCCTCACCCCACTGGAACCTTGAGGAGCCGAGCGGAGACGCCGGCCAG
 CCGCCGAGGCCTTTGCCACAACGCGATGACAGTGCCTCCATCTCTTCTTCTCCCTCGGTGGGCGCC
 CGGAGTGCCTCCCTACGAGGCCCAAGGCCTCAGCCCTGAGCAGGAAGAGACTGCTTCTCTGGTGTCT
 ACTGGCACTCTGGTCCCTGAGGGCATCTTCTGCCCCCTCCTGGTACCAGCTTGTTCAGATAGCCAGT
 GGGAGCAACTGCAGGTAGAGGGCGGCAGCTGCAGAAGGAGCTGGAAAGTGTAGCCGGGAGCGGGATGA
 GCTGCAGGAAGGACTAAGACGGAGCAATGAAGACTGTGCCAAGCAGATGCAGGTGCTCCTGGCCAGGTC
 CAGAACTCAGAGCAGTGTCCGAACTCTGCAAGGAAGTGTAGCCAGGCCAAGAGCGCGTGCAGCTGC
 AGATGGCAGAAGTGGCCACTTCTACAAGTGCCTGAGCCAAGAGGTTAAAAGACTGAATGAAGAAAATCA
 AGGGCTCCGGGTGAGCAGTGCCTCCTGCCCCTCAGGGCTCAGAGCAGCGGGAGGACCAGGACGAG
 GCCCTGCCAAGCTCCATACAGGAGCTACATCTGCTGGTGCAGAATACCAGGCAACAGGCGGGCCAGGC
 AGCAGGCACAGGAGCATGAGGCTGAGCGCCTGCGCATTGAAATTGTGAAGCTGCGGGAGGCACTGGACGA
 GGAGACAGCAGCCAAGGCCAGTCTGGAGAGACAGCTGAGGGTGCAGCGAGAAGAGACAGACGTGTGGAG
 GCCTACTGTGAGCCTGAGAATAGAGACGGAGCGGGTCCAGCAGGAGCAGCGCAAGGCCAGCTCACGG
 ATCTCCTCTCAGAGCAGAGAGCCAAGACACTCCGGCTGCAGGCTGAGCTGGAGACCAGTGAACAGGTGCA
 GAGGGACTTTGTACGGCTGTCCAGGCCCTACAGGTACGCCTGGAGCGGATCCGCCAAGCAGAGACTCTG
 CAGCAAGTGCATGATCCTGGATGAGGCGCCCTCAGGGACATCAGGGACATTAAGACTCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208221 representing NM_030566
 Red=Cloning site Green=Tags(s)

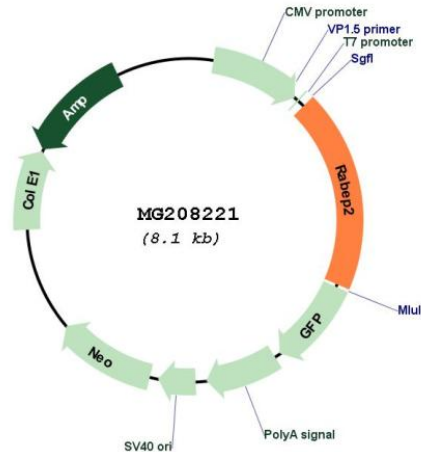
MKAVAEVSESTKAEVAVAVQRQCQEIVASLQAILKDSISSYETQIAALKQERQQQQDFEEDRELGHKK
 QLLARAHPLDSLEKQMEKAHEDSEKLRIVLPMEQEITELKGLQRAEELIQEIQRPRQPASLHGSTEL
 LPLSRNPSPPLEPLEEPSGDAGPAAEAFAHNCDDASISSFSLGGAAGSASLRGPQGLSPEQEETASLVS
 TGTLVPEGIFLPPPGYQLVPDSQWEQLQVEGRQLQKELESVSRERDELQEGLRRSNEDCAQMQLLAQV
 QNSEQLLRTLQGTVSQAQERVQLQMAELATSHKCLSQEVKRLNEENQGLRAEQLPSSALQGSEQREDQDE
 ALPSSIQELHLLVQNTQQARARQQAQEHEAERLRIEIVKLREALDEETAAKASLERQLRVQREEDVLE
 ASLCSLRIETERVQQEQRKAQLTDLLSEQRAKTLRLQAELETSEQVQRDFVRLSQUALQVRLERIRQAETL
 QQVRSILDEAPLRDIRDIKDS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Plasmid Map:



ACCN: NM_030566

ORF Size: 1533 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_030566.1](#), [NP_085043.1](#)

RefSeq Size: 2294 bp

RefSeq ORF: 1665 bp

Locus ID: 70314

UniProt ID: [Q91WG2](#)

Cytogenetics: 7 F3

Gene Summary: Plays a role in membrane trafficking and in homotypic early endosome fusion. Participates in arteriogenesis by regulating vascular endothelial growth factor receptor 2/VEGFR2 cell surface expression and endosomal trafficking. By interacting with SDCCAG8, localizes to centrosomes and plays a critical role in ciliogenesis.[UniProtKB/Swiss-Prot Function]