

Product datasheet for **RR212435**

Rabep2 (NM_030585) Rat Tagged ORF Clone

Product data:

| | |
|--------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Rabep2 (NM_030585) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Rabep2 |
| Synonyms: | Fra; MP13 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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ORF Nucleotide Sequence:

>RR212435 representing NM_030585
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGCTGCGCCAGCAGCCCTAGCGCTGGATCCCCAGCCCCAAGAGGAGCAAAAGGATGCATCCGAAT
 CAAGTGAGCTCAGTAGGCTTCGTGCCGAAGTGGCCGGTGCAGTGGCAGAAATGAAAACCATGAAGGCTGT
 AGCTGAGGTGAGCGAGAGCACCAGGCAGAGCGGTGGCTGCAGTGCAGAGACAGTGCCAAGAGGAGGTG
 GCTTCCCTGCAGGCCATCCTGAAAGACTCCATCAGCAGCTACGAGACCCAGATCGCAGCCCTGAAACAGG
 AGCGGCAGCAGCAACAGGACTCTGAGGAGAAGGAGCGAGAGCTGGGCCACCTCAAACAGCTGCTGGC
 CCGGGCCACCCTTTGGACTCCTTGAGAAGCAAATGAAAAGGCTCACGAAGACTCAGAAAAGCTTCGG
 GAGATCGTGTGCCATGGAGCAGGAGATTGCAGAGCTGAAGGTGAAGCTGCTGAGGGCGGAAGAGCTGA
 TCCAAGAGATCCAGAGACGACCAAGGCAGCCTGCCTCCCTGCATGGCTCCACAGAGTTGCTTCCACTATC
 AAGGAACCCCTCACCACCCTGGAACCCCTCGGAGGAACCAAGTGGAGACGCAGGCCAGCTGCTGAGGCC
 TTCGCCACAACCTGTGATGACAGTGCCTCCATCTCTTCTCCTCGGTGGGGCCGCCGGTAGTGTCT
 CCCTACGAGGTCCCAAGGCCTCAGCCCGAGCAGGAAGAGACAGCTTCTCTGGTGTCTACTGGCACTCT
 GGTCCCGAGGGCATCTACCTACCCCTCCGGGTACCAGCTTGTTCAGACAGCCAGTGGGAGCAACTG
 CAGGTAGAGGGGCGCAGCTGCAGAAGGAGCTGGAAAAGTTCGCCGTGAGCGGGATGAAGTGCAGGAAG
 GACTGAGCCGGAGCAATGAGGACTGTGCCAAGCAGATGCAGGTGCTCCTGGCCAGGTCCAGAAGTCA
 GCAGTGTCCGAACTCTGCAGGAAACCGTGCAGCCAGGCCAGGAGCGGGTGCAGCGCAGATGGCAGAA
 CTGGCCACTTCTACAAGTGCCTGAGCCAAGAGGTTAAAAGACTGAATGAAGAAAATCGAGGACTCCGGG
 CTGAGCAGCTGCCATCCTCCGCCCTCAGGGCTCAGAGCAGCAGGAGGACCAGGACGAGGCCCTGCCAAG
 CTCCATACAGGAGCTACACCAGCTGGTGCGGCACACCCGGCAGCAGGCTCGGGCCAGGCAGCAGGCACAG
 GAGCATGAGGCTGAGCGCTGCGCATTGAAATTGTGAAGCTGCGGGAGGCACTAGACGAGGAGACAGCAG
 CCAAGGCCAGTCTGGAGGACAGCTGAGGGTGCAGCGAGAAGAGACAGATGTGCTGGAGGCCCTCCCTGTG
 CAGCCTGAGAATAGAGACAGAGCGGGTCCAACAAGAGCATCACAAGGCCAGCTCACAGATCTCCTCTCC
 GAACAGAGAGCCAAGGCACTACGGCTGCAGGCTGAGCTGGAGACCAGTGAACAGGTGCAGAGGGACTTCG
 TACGGCTATCCAGGCCCTACAGGTGCGCTGGAGCAGATCCGCCAAGCAGACACTCTGGAGCAAGTACG
 TAGCATTCTGGACGAGGCACCCCTCAGGGACATTAAGGACATTAAGGACTCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR212435 representing NM_030585
 Red=Cloning site Green=Tags(s)

MAAAPAALALDPQPQEEQKDASESSELRLRAELAGALAEEMTKAVAEVSESTKAEVAVAVQRQCQEEV
 ASLQAILKDSISSYETQIAALKQERQQQQDSEEKERELGHLKQLLARAHPLDSLEKQMEKAHEDSEKLR
 EIVLPMEQEI AELKVKLLRAEELIQEIQRPRQPASLHGSTELLPLSRNPSPPLEPSEEPSGDAGPAAEA
 FAHNCDDASISSFSLGGAAGSVLRGPQGLSPEQEETASLVSTGTLVPEGIYLP PPGYQLVPDSQWEQL
 QVEGRQLQKELESVRRERDELQELSRSNEDCAKMQVLLAQVQNSEQLLRTLQGTVSQAQERVQRQMAE
 LATSHKCLSQEVKRLNEENRGLRAEQLPSSALQGSEQQEDQDEALPSSIQELHQLVRHTRQQARARQQAQ
 EHEAERLRIEIVKLREALDEETAAKASLEGQLRVQREETDVLEASLCSLRIETERVQEHKHAQLTDLLS
 EQRAKALRLQAELETSEQVRDFVRLSQALQVRLEQIRQADTLEQVRSILDEAPLRDIKDIKDS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

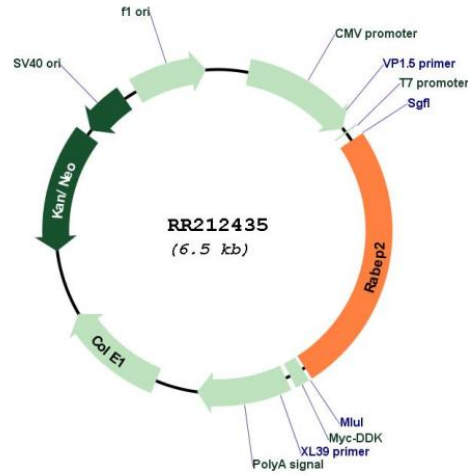
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



| | |
|-------------------------------|---|
| ACCN: | NM_030585 |
| ORF Size: | 1662 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_030585.1 , NP_085074.1 |
| RefSeq Size: | 2222 bp |
| RefSeq ORF: | 1665 bp |
| Locus ID: | 80754 |
| UniProt ID: | Q62835 |
| Cytogenetics: | 1q36 |
| MW: | 62 kDa |
| Gene Summary: | functions as a GTP regulation related factor [RGD, Feb 2006] |