

Product datasheet for **MR230782**

Reps2 (NM_001290633) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Reps2 (NM_001290633) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Reps2
Synonyms:	POB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR230782 representing NM_001290633
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGTGGCAGCGGGCGGAGGCTGCGGCCCGGGCCGCTTTGCTGCTGAGCGATAGCGAGCAGCAGT
 GCTACTCTGAGCTCTTCGCGCGCTGTGCGGGCGCTGCAAGCGGGGCCCCGGACCTGGTCCCCCGAGGC
 TACCAGGGTCGCCCCGGCACTGCCACTGCGGCCGCTGGTCCAGTAGCTGATCTGTTTCGAGCGTCGCAG
 CTGCCACCAGAGACATTGCACCAGATCACAGAAGTGTGTGGTGC AAAGCGGGTTGGTTATTTGGCCAA
 CACAGTTTTATGTTGCCCTGAAATTGATTGCTGCAGCACAGGCTGGCCTCCCTGTGAGAACAGAGATAT
 TAAATGTGAAGTGCCTCTGCCTCGCTTTGTGATGTGCAAGAATGATGGTGAAGTACGGTTTGGGAACCA
 GCTGAGCTGCATGGACCGAAGGTTCCAGATTCCATACTTAACCACAGAGAAAAATTCCTTCAAAGAATGG
 ACAATGAGGATAAGCAGGAAACACAGTCTCCACGATGCACCCCTCGCCTCCCTCCTTCTTCCCCGCC
 TCATTACCAGAGGGTGTCTTGTGAGCCATGGCTACAGCAAAGTGGGAGCGGCACAGAACAGATGCATCCA
 GCTCCATATGAAAGGCAGCCATTGGCCAGCCTGAAGGACCTCATCAGAGGGTCCAGGAGCCAAACCTT
 TTCGTCGGCAGGCATCTCTTATTCGGTCTTTTTCAGTGGAGAGAGAACCAGGAGAAACAACAGTAATTA
 CCCAGATGAGCCCTGGAGGATAACTGAAGAACAGCGGGAGTACTACGTCAATCAGTTTCGGTCCCTCCAG
 CCAGACCCGAGTTCCTTCATTTCCAGGGTCTGTGGCCAAGAAGTCTTCCACCAATCAAAGCTCTCCATTC
 CAGAACTCTTTATCTGGAACTCAGTGTGCTGACTGTGATGGAGCCCTGACCTTGTCCGAGTTTTG
 TGCTGCATTCCATCTCATCGTAGCCCGGAAGAACGGCTACCCACTGCCAGAGGGCCTGCCTCAAAGTCTG
 CAGCCAGAGTACTTGAAGCAGCTTCCCTAAATCCAAGTGGGAGTGTGCAATTTTTGATTCTTATTCTG
 AGTCAATGCCAGCAAACCAACAGTCTGTGACTTGAATCGGATGGAGAAGACATCTGTTAAAGAGCTGGC
 TGACTTCCCTGTCCCTACCCAAGATGTGACTACTGCTGATGACAAACAAGCTTTGAAAAGTACTGTTAAC
 GAATCCTTACCAAAGGACGTATCTGAGGATACAGCAACTTCTAAGGACTACAACAGTCTCAAAGCAAGAC
 CAAGATCCAGATCTTACTCTAGCACCTCCATAGAAGAGGCCATGAAAAGGGGTGAGGACCCTCCCACCCC
 ACCACCAGGCCACAGAAAACCCATTCCAGAGCCTCCTCCTTGGATCTGAATAAAGTCTTCTGCCAGT
 GCGCCAGCTGCTAACTCAGGATTGTTACCCACCACCGGCACTTCTCCGAGACCGTGTCCAACACAGT
 CTGAACCAGTGTCTGAAGCTGATTTACTCTCAGCTGAACAGAGCTCCTTCCAAAGCTGCAGAAAGCAG
 TCCAACAAGATGGATGCACCACATGCTCAGCCTCCATCAAAGCCTATTCGCAGGAAATCCGACCTGAA
 AATCAAACAACAGAAAGCAAGAGCCTGCTGCTGCAGTTGGAGGGCAGTTTCTGCAGCAATGGTGAAGC
 CCCATCCAACAGTACAAAAGCAGTCTTCCAAGCAGAAAGGCTATTCAGACTGCCATTCGCAAAAATAA
 GGAGGCCAATGCAGTGTGGCCCGATTGAACAGTGAAGTGCAGCAGCAGCTGAAGGAAGTTCATCAAGAA
 CGGATCGCATTGGAAAACCAATTGGAACAACCTCGCCAGTCACAGTGTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR230782 representing NM_001290633
Red=Cloning site Green=Tags(s)

MEVAAGGGCGAGPPLLLSDSEQCYSELFARCAGAAASGGPGPPPEATRVAPGTATAAAGPVADLFRASQ
 LPPETLHQITELCGAKRVGYFGPTQFYVALKLIAAAQAGLPVRTESEIKCELPLPRFVMSKNDGEIRFGNP
 AELHGPKVQIPYLTTEKNSFKRMDNEDKQETQSPTMSPLASPPSSPPHYQRVSLSHGYSKLRSGTEQMHP
 APYERQPIGQPEGPSSEGPAGKPFRRQASLIRSFVVEREPQENNSNYPDEPWRIETEEQREYYVNVQFRSLQ
 PDPSSFISGSVAKNFFTKSKLSIPELSYIWELSDADCDGALTLSEFCAAFHLIVARKNGYPLPEGLPPTL
 QPEYLQAAFPCKWECAIFDSYSESMANQQSCDLNRMEKTSVKDVADFPVPTQDVTTADDKQALKSTVN
 ESLPKDVEDTATSKDYNSLKARPRSRYSSTSIEEAMKRGEDPPTPPRPQKTHSRASSLDLNKVFLLPS
 APAANGLLPPPPALPPRPCPTQSEPVSEADLHSQLNRAPSQAAESSPTKMDAPHAQPPSKPIRRKFRPE
 NQTTESQEPAAAAGVAVSAAMVKPHPTVQKQSSKQKKAIQTAIRKNKEANAVLARLNSELQQQLKEVHQE
 RIALENQLEQLRPVTVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001290633

ORF Size: 1941 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_001290633.1](#), [NP_001277562.1](#)

RefSeq Size: 7695 bp

RefSeq ORF: 1944 bp

Locus ID: 194590

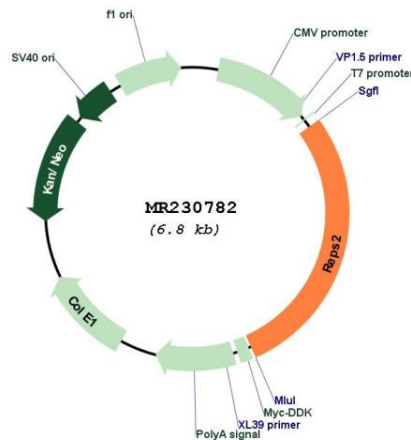
UniProt ID: [A2AFI8](#)

Cytogenetics: X F4

MW: 70.9 kDa

Gene Summary: Involved in growth factor signaling through its influence on the Ral signaling pathway (By similarity). Interaction with ASAP1 may regulate cell migration.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR230782