

Product datasheet for **RN201148**

Rap1a (NM_001005765) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rap1a (NM_001005765) Rat Untagged Clone
Tag: Tag Free
Symbol: Rap1a
Synonyms: RAP-1A; rap 1A
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN201148 representing NM_001005765
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGTGAGTACAAGCTAGTGGTCCTTGGTTCCAGGAGCGTGGGAAAGTCTGCTCTGACAGTTCAGTTT
TTCAGGGAATTTTGTGAAAAATATGACCCAACGATAGAAGATTCCTACAGAAAGCAAGTCGAAGTAGA
TTGCCAACAGTGTATGCTGGAAATCCTGGACACCGCAGGGACAGAGCAATTTACAGCAATGAGGGATTTG
TATATGAAGAATGGCCAAGGGTTTGCACTAGTTTATTCAATTACAGCTCAGTCTACGTTTAACTACTAC
AAGACTTGAGAGAACAGATTTTACGGGTTAAAGACACAGAAGATGTTCCAATGATTTTGGTTGGCAATAA
ATGTGATCTGGAAGATGAGCGGGTAGTTGGCAAAGAACAAGCCAGAATTTAGCAAGACAGTGGTGTAAAC
TGTGCCTTTTGAATCTTCTGCAAAGTCAAAGATCAACGTTAATGAGATATTTTATGACCTGGTCAGAC
AGATAAATAGAAAAACACCAGTGGAAAAGAAGCCTAAAAAGAAATCATGTCTGCTGCT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001005765
Insert Size: 555 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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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:	<u>NM_001005765.1, NP_001005765.1</u>
RefSeq Size:	2458 bp
RefSeq ORF:	555 bp
Locus ID:	295347
UniProt ID:	<u>P62836</u>
Cytogenetics:	2q34
Gene Summary:	Induces morphological reversion of a cell line transformed by a Ras oncogene. Counteracts the mitogenic function of Ras, at least partly because it can interact with Ras GAPs and RAF in a competitive manner. Together with ITGB1BP1, regulates KRIT1 localization to microtubules and membranes (By similarity). Plays a role in nerve growth factor (NGF)-induced neurite outgrowth. Plays a role in the regulation of embryonic blood vessel formation. Involved in the establishment of basal endothelial barrier function. May be involved in the regulation of the vascular endothelial growth factor receptor KDR expression at endothelial cell-cell junctions. [UniProtKB/Swiss-Prot Function]