

## Product datasheet for **RG236366**

### **RAP1A (NM\_001291896) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RAP1A (NM\_001291896) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** RAP1A  
**Synonyms:** C21KG; G-22K; KREV-1; KREV1; RAP1; SMGP21  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG236366 representing NM\_001291896.  
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTGAAACCGTCAGAATTTGTAAACGACTCACTATAGGGCCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCGTGAGTACAAGCTAGTGGTCTTGGTTTCAGGAGCGTTGGGAAGTCTGCTCTGACAGTTTCAGTTT
GTTTCAGGGAATTTTGTGAAAAATATGACCCAACGATAGAAGATTCCTACAGAAAGCAAGTTGAAGTC
GATTGCCAACAGTGTATGCTCGAAATCCTGGATACTGCAGGGACAGAGCAATTTACAGCAATGAGGGAT
TTGTATATGAAGAACGCCAAGTTTTGCACTAGTATATTCTATTACAGCTCAGTCCACGTTTAAACGAC
TTACAGGACCTGAGGGAACAGATTTTACGGTTAAGGACACGGAAGATGTTCCAATGATTTTGGTTGGC
AATAAATGTGACCTGGAAGATGAGCGAGTAGTTGGCAAAGAGCAGGGCCAGAATTTAGCAAGACAGTGG
TGTAACCTGTCCTTTTTAGAATCTTCTGCAAAGTCAAAGATCAATGTTAATGAGATATTTTATGACCTG
GTCAGACAGATAAATAGGAAAACACCAAGTGGAAAAGAAGCCTAAAAAGAAATCATGTCTGCTGCTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG236366  
Blue=ORF Red=Cloning site Green=Tag(s)

```
MREYKLVVLGSGGVGKSALTVQFVQGFVQKIFVEKYDPTIEDSYRKQVEVDCQCMLIILDTAGTEQFTAMRD
LYMKNQGQFALVYSITAQSTFNDLQDLREQILRVKDTEDVPMILVGNKCDLEDERVVGKEQGQNLARQW
CNCAFLESSAKSKINVNEIFYDLVRQINRKTTPVEKKPKKKSCLLL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSDHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:** Sgfl-MluI





<b>Components:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_001291896.1</a> , <a href="#">NP_001278825.1</a>
<b>RefSeq Size:</b>	5077 bp
<b>RefSeq ORF:</b>	555 bp
<b>Locus ID:</b>	5906
<b>UniProt ID:</b>	<a href="#">P62834</a>
<b>Cytogenetics:</b>	1p13.2
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Chemokine signaling pathway, Focal adhesion, Leukocyte transendothelial migration, Long-term potentiation, MAPK signaling pathway, Neurotrophin signaling pathway, Renal cell carcinoma
<b>MW:</b>	21 kDa
<b>Gene Summary:</b>	This gene encodes a member of the Ras family of small GTPases. The encoded protein undergoes a change in conformational state and activity, depending on whether it is bound to GTP or GDP. This protein is activated by several types of guanine nucleotide exchange factors (GEFs), and inactivated by two groups of GTPase-activating proteins (GAPs). The activation status of the encoded protein is therefore affected by the balance of intracellular levels of GEFs and GAPs. The encoded protein regulates signaling pathways that affect cell proliferation and adhesion, and may play a role in tumor malignancy. Pseudogenes of this gene have been defined on chromosomes 14 and 17. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014]