

## Product datasheet for RR214105

### Rras (NM\_001108481) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rras (NM_001108481) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rras
Synonyms:	p23
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR214105 representing NM_001108481 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCAGCGGGCGGCGTCCGGGACTGGGCGGGGGCGGCCCGGGGCGGGGGCCGGGACCCAGGGACC  
CCCCGCCCGGCGAGACTCACAAGCTGGTGGTCGTAGGCGGCGGCGGCGTGGGCAAGAGCGCGCTGACCAT  
CCAGTTCATCCAGTCCTACTTTGTGTCTGACTATGACCCACCATTGAGGATTCCTACACAAAGATCTGC  
ACGGTGGACGGCATCCCTGCACGGCTGGACATCCTGGACTGCGGGCAAGAGGAATTCGGCGCCATGC  
GGGAGCAGTACATGCGTGTGGCAATGGCTTCTTGTGTTGTTGCCATTAACGACAGGCAGAGTTTCAT  
TGAAGTAAGCAAGCTCTCACTCAGATCCTCAGGGTCAAGGACCGGATGACTTCCCCATTGTGCTGGTT  
GGGAACAAGCAGATCTGGAGACACAGCGCCAGGTCCTTCGATCAGAGGCCTCCTCTTTAGTGCTCCC  
ACCATATGACTTACTTTGAGGCCTCAGCCAAACTGCGTCTAAATGTGATGAGGCATTTGAGCAGCTGGT  
GCGGACTGTCCGAAATACCAGGAGCAAGAAGTCCCTCTAGCCACCCAGTGCCCTAGGAAGAAGGAT  
GGGAGGTGCCCTGTGTCTCTGCTG

**ACGCGT**ACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR214105 representing NM\_001108481  
Red=Cloning site Green=Tags(s)

MSSGAASGTGRGRPRGGGPGPRDPPPGETHKL VVVGGGVGSALTIQFIQSYFVSDYDPTIEDSYTKIC  
 TVDGIPARLDILDTAGQEEFGAMREQYMRANGFLLVFAINDRQSFIEVSKLFTQILRVKDRDDFPVILV  
 GNKADLETQRQVLRSEASSFSASHHMTYFEASAKLRLNVDEAFEQLVRTVRKYQEQLPPSPSPAPRKKD  
 GRPCVLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_001108481

**ORF Size:** 654 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\\_001108481.1](#), [NP\\_001101951.1](#)

**RefSeq Size:** 950 bp

**RefSeq ORF:** 657 bp

**Locus ID:** 361568

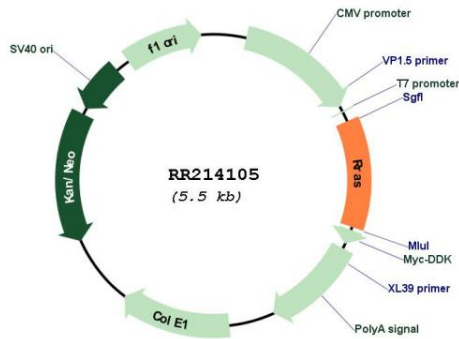
**UniProt ID:** [D3Z8L7](#)

**Cytogenetics:** 1q22

**MW:** 23.9 kDa

**Gene Summary:** Regulates the organization of the actin cytoskeleton. With OSPBL3, modulates integrin beta-1 (ITGB1) activity.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RR214105