

## Product datasheet for **RR200564**

### Raf1 (NM\_012639) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Raf1 (NM_012639) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Raf1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RR200564 representing NM\_012639  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGCACATACAGGGAGCTTGAAGACGATCAGCAATGGTTTCGGACTCAAAGATGCTGTGTTTGATG  
 GCTCCAGTTGCATCTCCCTACAATTGTTGAGCAGTTTGGCTATCAGCGTCGGCCCTCTGATGATGGCAA  
 ACTCACGGATTCTTCTAAGACAAGCAATACTATCCGGTTTTCTTGCCGAATAAGCAAAGGACTGTGGTC  
 AATGTGCGGAATGGGATGAGCTTGCACGACTGCCTTATGAAAGCTCTGAAGGTTAGAGGCCCTGCAGCCAG  
 AGTGCTGTGAGTGTTCAGACTTCTTCAGGAGCACAAAGGTAAGAAAGCACGCTTAGATTGGAACCCGA  
 CGCCGCTCTCTGATTGGAGAAGAACTGCAAGTGGATTTTTGGATCACGTTCCACTCACAACCTACAAC  
 TTTGCTCGAAAACGTTCTGAAGCTTGCATTCTGTGACATCTGTCAAAGTTCTGCTAAATGGATTTTC  
 GATGTCAGACTTGTGGCTACAAGTTTCATGAGCACTGTAGCACAAAGTACCTACTATGTGTGTGGACTG  
 GAGTAATATCAGACAGCTTGTGCTTTCCAAATTCCTGCAAGTGACAGTGGAGTCCCAGCACCCACC  
 TCTTTCACAATGCGTCCGATGCGAGAATCTGTTCCCGGATGCCTGCTAGTTCACAGCACAGATACTCCA  
 CACCCATGCCTTCACTTCAACACCTCCAGCCCTTCTCTGAAGGTTCCCTGTCCCAGAGGCAGAGGTC  
 AACGTCCACTCCCAATGTCCACATGGTCAGCACCACCCTGCCTGTGGACAGCAGGATGATTGAGGATGCA  
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 GCTGGTCACAGCCCAAAACCCCTGTGCCAGCACAAAGAGAGAGGGCGCCAGGATCTGGGACCCAGGAAAA  
 AAACAAAATTAGGCCTCGTGGGCAGAGAGATTCAAGTTATTACTGGGAAATAGAAGCCAGTGAAGTGTG  
 CTGTCTACTCGGATTGGCTCGGGCTCCTTTGGCACTGTGTACAAGGGCAAGTGGCATGGAGATGTTGCAG  
 TAAAGATCCTAAAGGTGGTTGACCCAACCTCCAGAGCAACTTCAGGCCTTCAGGAACGAGGTGGCTGTTTT  
 GCGCAAAACACGGCATGTTAATATCCTGCTGTTTACATGGGGTACATGACAAAGGACAACCTGGCGATTGTG  
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 AGCTAATTGACATTGCCCGCAGACAGCTCAGGGAATGGACTATTTACATGCAAAGAACATCATCCACAG  
 AGACATGAAATCCAACAATATATTTCTCCATGAAGGCCTCACGGTGAAAAATCGGAGATTTTGGTTTGGCA  
 ACAGTGAAGTCGCGCTGGAGTGGTTCTCAGCAGGTTGAACAGCCCACTGGCTCTGTGCTGTGGATGGCCC  
 CAGAAGTAATCCGAATGCAGGATAACAACCCGTTACGCTTCCAGTCCGATGTCTACTCCTATGGCATTGT  
 GCTGTATGAGCTGATGACTGGGAGCTTCCCTACTCCACATCAACAACCGAGACCAGATCATCTTCATG  
 GTGGGCCGTGGTACGCCTCCCAAGATCTTAGCAGGCTCTACAAGAAGTCCCAAGGCAATGAAGAGGT  
 TGGTGGCTGACTGTGTGAAGAAAGTCAAAGAAGAAAGGCCTTTGTTTCTCAGATCCTGTCTCCATTGA  
 GCTGCTTCAAGCACTCTCTGCCGAAAATCAACAGGAGCGCCTCTGAGCCTTCCCTGCATCGGGCAGCTCAC  
 ACTGAGGACATCAATGCTTGTACGCTGACCACATCCCCAAGGCTACCAGTCTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR200564 representing NM\_012639  
Red=Cloning site Green=Tags(s)

```
MEHIQGAWKTISNGFGLKDAVFDGSSCISPTIVQQFGYQRRASDDGKLTDSKTSNTIRVFLPNKQRTVV
NVRNGMSLHDCLMKALKVRGLQPECCAVFRLQEHKGGKARLDWNTDAASLIGEELQVDFLDHVPLTTHN
FARKTFLKLAFCDICQKFLLLNGFRCQTCGYKFHEHCSTKVPTMCDVWSNIRQLLLFPNSTASDSGVPAPP
SFTMRRMRESVSRMPASSQHRYSTPHAFTFNTSSPSSEGLSQRQRSTSTPNVHMVSTTLPVDSRMIEDA
IRSHSESASPSALSSSPNNLSPTGWSQPKTPVPAQRERAPGSGTQEKNI RPRGQRDSSYYWEIEASEVM
LSTRIGSGSGFTVYKWKWHGDVAVKILKVVDPTEQLQAFRNEVAVLRKTRHVNILLFMGYMTKDNLAIV
TQWCEGSSLYKHLHVQETKQMFQLIDIARQTAQGM DYLHAKNIIHRDMKSNNIFLHEGLTVKIGDFGLA
TVKSRWSGSQQVEQPTGSVLWMAPEVIRMQDNNPFSFQSDVYSYGI VLYELMTGELPYSHINNRDQIIFM
VGRGYASPDLSRLYKNCPKAMKRLVADCVKVKKEERPLFPQILSSI ELLQHSLPKINRSASEPSLHRAAH
TEDINACTLTTSPRLPVF
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_012639

**ORF Size:** 1944 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\\_012639.2](#), [NP\\_036771.1](#)

**RefSeq Size:** 2970 bp

**RefSeq ORF:** 1947 bp

**Locus ID:** 24703

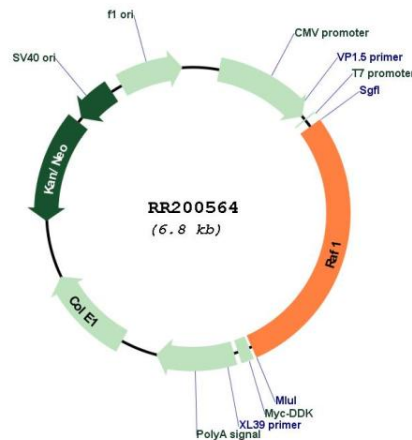
**UniProt ID:** [P11345](#)

**Cytogenetics:** 4q42

**MW:** 72.9 kDa

**Gene Summary:** acts as a mitogenic protein kinase; mutant forms may play a role in transformation [RGD, Feb 2006]

### Product images:



Circular map for RR200564