

## Product datasheet for **RR203496**

### Ext2 (NM\_001107751) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ext2 (NM_001107751) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ext2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide  
Sequence:

>RR203496 representing NM\_001107751  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGTGTGCGTCCGTCAAGTCCAACATCCGGGGTCTGCCCTCATCCCAAGGATGAAGACCAAGCACC  
TCTACTACGTACCCCTGTTCTCCATCGTCTCCTGGGCCTCATCGCCACTGGCATGTTTCAGTTCTGGCC  
TCACTCCATCGAGTCTCCAGCGATGGGGTGTGGAGAAACGCAGCATCCGGGAAGTGCCAGTGGTCAGG  
CTGACAGCTGACAGCCCTATCCAGAGCGGGGGATCTCAGCTGTAGAATGCACACGTGTTTCGATGTCT  
ACCGCTGCGGCTTCAACCCAAAGAACAATAAAGGTGTACATCTACCCCTAAAGAAGTACGTGGATGA  
CGCCGGTGTTCGGTGAGCAGCGCCATCTCCGGGAGTACAATGAACTGCTCACAGCCATCTCAGACAGT  
GACTACTACAGATGACATCAGCCGAGCTGTCTGTTCTGCCCTCCATTGATGTGCTGAACCAGAACC  
CCCTTCGAATCAAGGAGACAGCGCAAGCCCTGGCCAGCTTCCAGGTGGATCGAGGGACAATACCT  
GCTGTTCAACATGTTGCCTGGAGTCTCCAGATTACAACACTGCCCTGGATGTCCCAGAGACAGGGCA  
CTGCTGGCTGGTGGCGGCTTTTCTACCTGGACTTACCGGCAGGGCTACGATGTCAGCATTCTGTTTCA  
GCCCACTGTCAGCCGAAGTGGCTCTCCAGAGAAAGCACCAGGTTCCCGCGGATACTTCTGCTGTCTCTC  
TCAGATGGCCATCCACCCTGAGTACAGAGAGAACTAGAAGCCCTCCAGGCCAAACACAGAGAGTCCGTG  
TTAGTCTTAGACAAATGCACCAATCTCTCAGAGGGCGTCTTCCATCCGAAAGCGCTGCCACCAGCACC  
AGGTCTTTGATTACCCCAAGTACTGCAGGAGGCTACTTTTTGTACGGTCTTCGAGGAGCTCGGCTGGG  
CCAGGCAGTGTGAGCGATGTCTTACAGGCTGGCTGTGCCAGTTGTCATTGCAGACTCTTACATTCTG  
CCTTTCTCTGAAGTCTGGACTGGAAGAGGGCATCTGTGGTCATTCCAGAGGAGAAGATGTCAGATGTGT  
ACAGCATCCTGCAGAACATCCACAGAGGCAGATTGAAGAGATGCAGAGACAGGCAGATGGTTCTGGGA  
GGCATACTTTCGGTCCATTAAGCCATCGCCCTGGCCACCCTACAGATCATCAATGACAGGATCTATCCA  
TATGCAGCCATTTCTATGAAGAGTGAATGACCTCCTGCTGTGAAGTGGGCTAGTGTGAGCAACCCGC  
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GAGCCTTTCGGGTATCACCAGGAGTCCAAGGTGCCAGTCTGTCCAAGTGTGGTGGTCTGGAAT  
AATCAGAATAAAAACCTCCAGAAGAATCTCTGTGGCCAAAATCCGTGTTCCCTGAAGTTGTGAGGA  
CTGCAGAAAACAAGCTAAGTAATCGTTTCTTCCCTTACGATGAAATCGAGACAGAGGCCGTGCTGGCCAT  
CGATGATGATATCATCATGCTGACCTCTGATGAGCTGCAGTTGGTTATGAGATTTTAATTACCTGTAT  
ACCTACAAAATGCCTGGGACATCAAGAACTGGGTAGATGCTCACATGAACTGTGAAGATATTGCCATGA  
ATTTCTAGTGGCAATGTCACAGGGAAAGCTGTCAAGGTAACCCCAAGAAAGAAGTTCAAGTGTCC  
TGAGTGCACAGCCATCGACGGACTCTCACTAGACCAGACTCACATGGTAGAGAGGCTGAGTGCATCAAT  
AAGTTTGTTCGGTCTTCGGAACGATGCCCTCAAGGTGGTGGAGCACCAGCAGACCCTGTACTTACA  
AAGATGACTTCCCTGAGAAACTGAAGAGTTTCCCAACATCGGCAGCTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR203496 representing NM\_001107751  
 Red=Cloning site Green=Tags(s)

MCASVKSNIIRGALIPRMKTKHRIYYVTLFSIVLLGLIATGMFQFWPHSIESSSDGGVEKRSIREVPVVR  
 LTADSPIPERGDLSCRMHTCFDVYRCGFNPKNKIKVYIYPLKKYVDDAGVPVSSAISREYNELLTAISDS  
 DYYTDDISRACLFVPSIDVLNQNPLRIKETAQALAQPLRWDRGTNHLNFNMLPGGPPDYNTALDVPDRRA  
 LLAGGGFSTWYRQGYDVSIPVFSPLSAEVALPEKAPGSRRYFLLSSQMAIHPEYREELEALQAKHRESV  
 LVLDKCTNLSEGVL SIRKRCHQHQVFDYPQVLQEATFCTVLRGARLGQAVLSDVLQAGCVPVVIADSYIL  
 PFSEVLDWKRASVVIPEEKMSDVYSILQNIQRIEEMQRQARWFEAYFRSIIKAIATLQIINDRIYP  
 YAAISYEEWNDPPAVKWASVSNPLFLPLIPPQSQGFTAI VLT YDRVESLFRVITEVSKVPSLSKLLVWVN  
 NQNKNPPEESLWPKIRVPLKVVRTAENKLSNRFFPYDEIETEAVLAIDDDIIMLTSEDLQFGYEYFNLY  
 TYKMPGDIKNWVDAHMCEDIAMNFLVANVTGKAVIKVTPRKKFKCPECTAIDGLSLDQTHMVERSEIN  
 KFASVFGTMPLKVVHRADPVL YKDDFPEKLSFPNIGSL

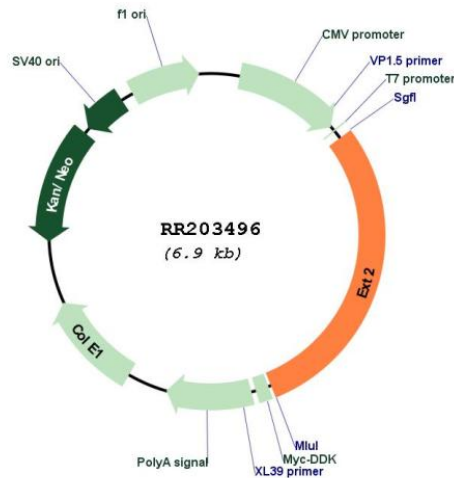
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_001107751

**ORF Size:** 2010 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\_001107751.1, NP\_001101221.1  
RefSeq Size: 2732 bp  
RefSeq ORF: 2013 bp  
Locus ID: 311215  
Cytogenetics: 3q31  
MW: 76.1 kDa