

Product datasheet for **RR209581**

Erp44 (NM_001008317) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Erp44 (NM_001008317) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Erp44
Synonyms:	BWK4; Txndc4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR209581 representing NM_001008317 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATCCTACCGTCTTCTGTCTTTACCAGACCTCAGATGCTCCTTGCTACTCCTGGTAACTTCGATTT
TTGCACCTATAACAGCTGAAATAGCAAGTCTTGATTGAGAGAATATAGATGAAATTTTAAATAATGCTGA
TGTTGCTTTAGTAAATTTTATGCTGACTGGTGTCTGTTTCAGCCAGATGTTGCATCCAATTTTGGAGAA
GCATCTGATGTCATTAAGGAAGAATATCCAGATAAAAAATCAAGTAGTGTTCGAGAGTTGATTGTGATC
AGCACTCTGATATAGCCAGAGGTACAGGATAAGCAAATACCCAACCTGAAATTATTCGTAATGGAAT
GATGATGAAGAGAGAATACAGGGGCCAGCGATCAGTGAAAGCGCTTGCACTACATCAGGCAACAGAAA
AGTAACCCCGTCCACGAGATTACAGAGTCTAGATGAAGTACCAATCTTGATCGCAGTAAGAGAAATATCA
TTGGATACTTTGAGCAGAAGGATTACAGATAATTACAGAGTTTTTGAAAGAGTAGCAAGTATTTGTCATGA
TGACTGTGCCTTCCTTTCTGCTTTTGGAGATCTTCAAACCCAGAAAGGTACAGTGGAGACAATTTAATC
TACAAACCACCGGGCGTTCTGTGCCAGACATGGTGTACTTGGGATCTATGACAAATTTTATGTAACCTT
TCAACTGGATTCAAGATAAATGTGTCCCTCTTGCCGAGAAATAACATTTGAAATGGAGAGGAATTGAC
AGAAGAAGGACTGCCTTTTCTCATTCTCTCCACATGAAGGAGGATACAGAAAGTTTGAATATTTCCAG
AATGAAGTAGCCCGCAGTTGATAAGTAAAAAGGTACAATAAATTTCTTACATGCAGATTGTGACAAAT
TTAGACATCCTCTTCTCCATATCCAGAAGACTCCAGCAGATTGCCCTGTATAGCCATTGACAGCTTTAG
GCATATGTATGTCTTTGGAGACTTAAAGGATGTATTAATTCCTGAAAACTCAAGCAGTTTGTATTTGAC
CTACATTCTGAAAACTACACAGAGAATTCATCATGGACCTGACCAACTGATACAGCCCCAGGAGAGC
AAGACCAGGATGTAGCGAGCAGTCTCTGAGAGCTCTTCCAGAAGCTGGCGCCAGCGAATATAGGTA
TACTTTATTGAGGGATCGAGATGAGCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR209581 representing NM_001008317

Red=Cloning site Green=Tags(s)

MNPTVFLSLPDLRCSLLLLVTSIFAPITAEIASLDSENIDEILNNADVALVNFYADWCRFSQMLHPIFEE
 ASDVIKEEYPDKNQVVFARVDCQHQSDIAQRYRISKYPTLKLFRNGMMMKREYRGQRSVKALADYIRQKQ
 SNPVHEIQSLDEVTLNDRSKRNIIGYFEQKSDSNYRVFERVASILHDDCAFLSAFGDL SKPERYSGDNL I
 YKPPGRSVPMVYLGSMTNFDVTNFWNIQDKCVPLVREITFENGEELEEGLPFLILFHMKEDTESLEIFQ
 NEVARQLISEKGTINFLHADCKFRHPLLHIQKTPADCPVIAIDSFRRHMYVFGDFKDVLPGLKQKFVFD
 LHSGLKHREHFHGGPDLTDAPGEQDQVASSPESSFOKLAPSEYRYTLLRDRDEL

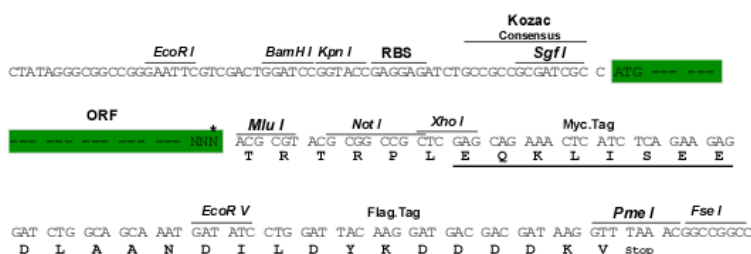
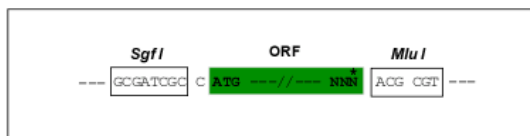
TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 001008317

ORF Size: 1218 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_001008317.1, NP_001008318.1

RefSeq Size: 1440 bp

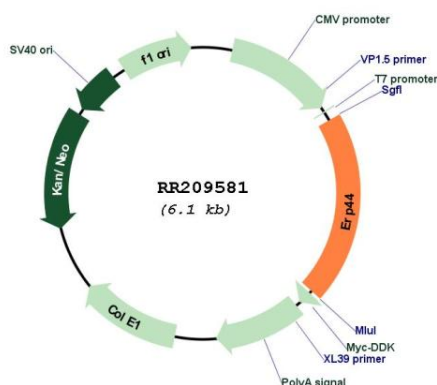
RefSeq ORF: 1221 bp

Locus ID: 298066

Cytogenetics: 5q22

MW: 46.9 kDa

Product images:



Circular map for RR209581