

Product datasheet for **RR210803**

F13a1 (NM_021698) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	F13a1 (NM_021698) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	F13a1
Synonyms:	F13a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR210803 representing NM_021698
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCGGATACTCCAGCAACTACCTTTGGGGACGGCGAGCAATCCCACCCAACAACTCTAATGCAGCAG
 AAGTGGACCTCCCGACTGAGGATCTGCAGGGCCTGGTGCCAGGGGTGTCAGCCTGAAAGATTACTTGAA
 TGTCCACAGCTGTTACCTGTTCAAGGAGAGATGGGACAGCAACAAGATTGATCACCACACAGACAAATAT
 GACAACAATAAGTTGATTGTCCGCAGAGGACAGACTTTCTACATCCAGATTGACTTCAATCGCCCATATG
 ACCCCAGGAAGGATCTCTTCAGAGTGGAAATGTCATTGGTGCCTACCCTCAGGAGAATAAGGGCACCTA
 CATCCCAGTGCCGGTAGTGACGGAGCTGCAAAGCGAAAGTGGGGGGCCAAGGTTATCATGAATGAGGAC
 AGGTCTGTGCGGCTTCCGTTCACTCTCCCGAATGCATCGTGGGAAATTCCGCATGTATGTTGCCG
 TCTGGACTCCCTATGGCATCCTGCTACTCAGAGAGACCCGAAACAGACACATACTTCTTCAATCC
 TTGGTGCAAGAAGACGCTGTGTATCTGGATGATGAGAAAAGAAAGAGAAGAGTACGTCCTAAATGACATC
 GGAGTGATATTTTCATGGGGACTTCAATGACATCAAGAGCAGAAGCTGGAGCTATGGCCAGTTTGAAGATG
 GCATCCTGGACGCTTGCTTGTATGTGATGGACAAAGCTGAGATGGACCTTCTGGCAGAGGGAACCCCAT
 CAAAGTCAGCCGAGTTGGATCAGCAATGGTGAATGCCAAGGATGACGAAGGTGTTCTTGTGGATCATGG
 GACAATGTCTATGCCTACGGCATCCCTCCATCAGCCTGGACAGGAAGTGTGACATTCTACTAGAATACA
 GAAGCTCAGAAACACCAGTCCGATATGGCCAGTCTGGTTTTTGTCTGGTGTCTTAAACACATTTTAAAG
 GTGCCCTTGGAAATCCCTGCGAGAGTCATTACCAATTACTTCTCAGCCCACGACAATGATGCCAATTTGCA
 ATGGACATCTTCTGGAAGAAGATGGGAGTGTGAGCTCCAACTCACCAGGATTCAGTGTGAACTACC
 ACTGTGAATGAAGCATGGATGACGAGGCTGATCTCCCTGTTGGATTGGAGGATGGCAAGCTGTGGA
 CAGCACACCCCAAGAAAACAGCGATGGCATGTACCCTGTGGCCCTGCCTCTGTTCAAGCCGTTAAGCAC
 GGCCATGTCTGCTTCAATTTGATGCCCATTTGTTTTTGCAGAGGTCAACAGTGATCTTGTTTACATCA
 CAGCTAAGAAAGATGGCACCCACGTGGTAGAGAACGTGGATGCCACCCACATCGGGAAGCTAATTGTGAC
 CAAAGAAATTGGAGGAGATGGGATGCAGGATATCACGGATACTTACAAATTTTCAGGAAGGCCAAGAAGAA
 GAGAGACTAGCCCTTGAAGTGCCTGATGTATGGAGCCAAGAAGACCCTCAATACTGAAGGCGTGGTCA
 AATCCAGATCTGATGTGGACATGAATTTGATGTGAAAATGCTGTGCTGGGAAAAGACTTCAGAGTGAC
 TATCACCTTCCAGAACAATAGCTCCAATCTGTACACCATCCTGGCCTATCTTCCGGCAACATCACCTTC
 TACTGCGGTATCCAAGAAAGAGTTCAAGACAGAGTCCCTTGAAGTGACGCTGGATCCCTTGCCTTAG
 AGAAAAAGGAGGTGCTGATCAGAGCAGGCGAGTATATGAGCTACCTTCTGGAACAGGGCCTCCTGCACTT
 CTTGCTCACTGCACGCATCAACGAGACCAGGGTCGTCCTGGCCAAGCAGAAGTCCATAGTGTGACTATC
 CCCAAGGTCACCATCAAGGTCAGGACTGCCATGGTTGGCTCTGATATGGTTGTGACTGTTGAGTTCA
 CAAATCCTTTGAAAGAAACGCTAAAAATGTCTGGCTTCACTTGGAAAGTCTGGAGTGTGAGACCCAA
 GAGGAAGATGTTCCGTGAAATCCGGCCCAACGCCACTGTGCAAGTGGGAAGAAGTCTGTGAGCCTGGGTC
 TCTGGTATCGGAAGCTGATTGCCAGCATGACCAGTACTCCCTGAGACATGTGTATGGAGAGCTGGACC
 TGCAGATTCGAAGACGACCTACTGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR210803 representing NM_021698
 Red=Cloning site Green=Tags(s)

MSDTPATTFGGRRRAIPPNNNSNAAEVDLPTEDLQGLVPRGVSLKDYLNVTAVHLFKERWDSNKIDHHTDKY
 DNNKLI VRRGQTFYIQIDFNRPYDPRKDLFRVEYVIGRYPQENKGTYPVPVVTTELQSGKWGAKVIMNED
 RSVRLSVQSSPECIVGKFRMYVAVWTPYIGILRTQRDPETDTYILFNPWCEEDAVYLDDEKEREEYVLNDI
 GVIFHGDFNDIKSRWSYGFEDGILDACLIVMDKAEMDL SGRGNPIKVS RVGSAMVNAKDDEGLVGSW
 DNVYAYGIPPSAWTGSVDILLEYRSSETPVRYGQCWVFAGVFNTFLRCLGIPARVITNYFSAHDNDANLQ
 MDIFLEEDGSVSSKLT KDSVWNYHCWNEAWMTRPDLVPGFGGWQAVDSTPQENS DGMYRCGPASVQAVKH
 GHVCFQFDAPFVFAEVNSDLVYITAKKDGTHVVENV DATHIGKLI VTK EIGDGMQDITDTYK FQEQEE
 ERLALE TALMYGAKKTLNTEGVVKS RSDVDMNFDVENAVL GKDFRVTITFQNSSNL YTILAYLSGNITF
 YTGVS KKEFKTESFEVTL DPLSLEKKEVLIRAGEYMSYLLEQGLLHFFVTARINETRVVLAKQKSIVLTI
 PKVTIKVRGTAMVGS DMVVTVEFTNPLKETLKNVWLHLEGP GVMRPKRKMFR EIRPNATVQWEEVCQPWV
 SGHRKLIASMTSDSLRHVYGELDLQIRRRPTV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

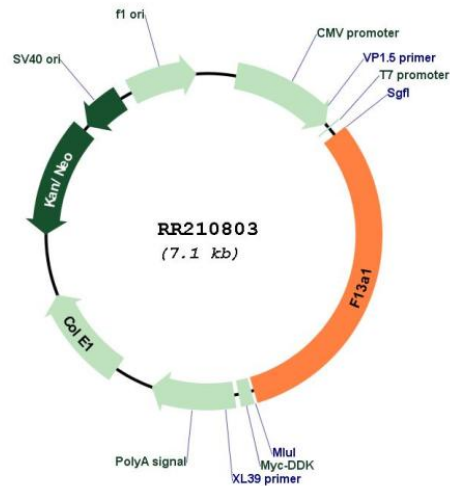
Restriction Sites:

SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_021698

ORF Size: 2196 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_021698.2](#), [NP_067730.2](#)

RefSeq Size: 3468 bp

RefSeq ORF: 2199 bp

Locus ID: 60327

UniProt ID: [O08619](#)
Cytogenetics: 17p12
MW: 83.1 kDa
Gene Summary: enhances gastric mucosa healing; reduces endothelial permeability [RGD, Feb 2006]