

Product datasheet for **RR217241**

Nfatc1 (NM_001244933) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nfatc1 (NM_001244933) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nfatc1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RR217241 representing NM_001244933
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCAAGTACCAGCTTTCCAGTCCCTTCCAAGTTTCCACTCGGCCCTCCGGCCGAGTCTGCGGGAGCG
 GAGAAACTTTGCGGCCCGCGCCGCTCGCCGGCGCACCATGAAGGCGGCCGAGGAAGAACAACACTACAGTTA
 TGGCTCCCTAGCGTCACCTCAACTCTGCCCTTCCCACAGCACACTCCGCCCTTGCAGCGGCATGCCAT
 GACCTCCAGACGTCCACCCCGGGCATCTCAGCTGTTCTTTCGGCCAATCACCCCTCTGGTTATGGGGGCG
 CTGTGGACAGTGGGCTTCAGGATACTTCTGTCTCCGGCAACACGAGACCCAATGGGGCCCCGACTCT
 CGAGAGTCTCGAATCGAGATCACCTCTATCTGGGCCTTACCACGGCAGCAACCAATTTTTCCACGAT
 GTGGAGGTGGAAGACGTACTTCTAGTGAAGCGGTACCATCTACAGCAACCTGCACCTGCCAGTC
 TGGAAAGCTACAGAGACCCCTCTGCTGAGCCAGCCAGCAGCCTGTCTCCAGGAGCTGTAACCTGA
 GCGTCTCTATGAGTCCAATTTATACCCGTACGCATCCCCCAGACCTCTCCATGGCAGTACCC
 TGTGTGTCTCCAAGACCACGGACCCAGAGGAGGGCTTTCCCGAAGCCTGGGTGCTGCCACTTGTCTGG
 GATCGCCAAGGCACTCCCATCCACCTCTCTCTGTCGTAAGCGTCAACCGAGGAGAGCTGGCTCGGTGCCCG
 TGGCTCCCGGCCACATCCCCCTGCAACAAGCGCAAATACAGTCTCAACGGCAGGCAGCCCTCTGCTCA
 CCCCACACTCGCCACACCATCCCCCATGGCTCCCCTCGGGTACGCGTACGGAAGACACCTGGCTTG
 GTAACACCACCCAGTACACCAGCTCTGCTATTGTGGCAGCCATCAACGCCTGACCACTGATAGCACTCT
 GGACCTGGGTGACGGTGTCTCTAAGTCTCGAAAGACAGCCCTGGAGCACGTGCCCTCTGTGGCCCTC
 AAGGTAGAGCCGGCTGGGAAGACCTGGGCACACACCCACTTCTGACTTCCACCCGAGGAGTTCCG
 CTTCCAGCACCTTCGGAAGGGTGCCTTTGTGAGCAGTATCTGTGCGTGCCACAGGCCTCGTATCAGT
 GGCAAAGCCCAAGTCTCTATCCCCAACGTACATAGGCCATCCCTGCCTGCCCTTACTGGCAGCTG
 CCGTCGCACTCTGGTCCGTATGAACTCCGGATCGAGGTGCAACCAAGTCTACCACAGGGCTCACTATG
 AGACGGAAGGCAGCCGGGAGCTGTGAAGGCTTCTGCTGGAGGACACCCTGCTGTCGAGTACATGGTTA
 CTTGGAAAACGAGCCTCTCAGCTCCAGCTGTTTATTGGGACGGCTGACGACCGCTGCTACGGCCCCAT
 GCCTTCTACCAGGTCCACCGGATCACGGGAAGACTGTCTCCACCACAGCCAGGAGCTATCCTGTCCA
 ACACCAAAGTCTGGAGATCCCCTGCTCCAGAAAATAACATGCGAGCCATCATCGACTGTGCTGGGAT
 CCTGAAGCTCAGAACTCTGATATCGAGCTGAGGAAAGGGGAGACAGACATCGGGAGAAAGAACCAGG
 GTGCGGCTGGTCTCCGAGTCCACATCCCCAGCCAGCCGCGGACGCTGTCTCTCCAGGTGGCCTCAA
 ACCCGATCGAGTCTCCAGCGTCCGGCCAGGAACTGCCCTCGTGGAGAAGCAGAGCACAGACAGCTA
 CCCGGTCAATGGAGGGAAGAAGATGGTGTGTCTGGCCATAACTTTCTGCAAGACTCCAAGTCACTTTC
 GTGGAGAAGGCCCCAGATGGCCACCATGTCTGGGAGATGGAAGCGAAAATGACCAGACCTGTGCAAGC
 CAAATTCCTGGTGTGGAGATACCACCTTCCGCAACCAGAGAATAACCAGCCCCGTCCAAGTCACTT
 CTATGTCTGCAACGGGAAGCGGAAGAGAAGCCAGTACCAGATTTACGTACCTTCTGCCAATGTTCCA
 ATTATAAAGACAGAACCCACGGACGACTTTGAGCCAGCTCTGACCTGTGGACCAATGAGCCAGGGACTTA
 GCCCTCTGCCGAGGCTTACTATAGCCAACAACCTACCGCGCTCTGACCTGGCTCTGCCTTGTGGC
 CGGCTTTGCCCTGCTCACAGAGGAACACGCCGATGCCACGTCTCCAATGCAAGCCAAAGCTCCAC
 GACCTTTCTCTCCCGCTACGCCAAGGGCTCGCCAACCCAGGCCACAGTGGTACCTTGGACTTCAGC
 CACCAGCTTACAGGCCCCACCATGCAGGAATTGCCGAGACCATGGCCGTCCAGCCAACTCGCCTGA
 GCAGCCACATCCGTCAGGCTACAGCCGAC

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR217241 representing NM_001244933
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MPSTSFVPVPSKFPLGPPAAVCGSGETLRPAPLAGGTMKAAEEEHYSYASPSVTSTLPLPTAHSALPAACH
 DLQTSTPGISAVPSANHPSTGYGGAVDSGSPGYFLSSGNTRPNGAPTLESPRIEITSYLGLHHGSNQFFHD
 VEVEDVLPSCKRSPSTATLHLPSEAYRDPSCSPASSLSSRSCNSEASSYESNYSYPYASPQTSPWQSP
 CVSPKTTDPEEGFPRSLGACHLLGSPRHSPSTSPRASVTEESWLGARGSRPTSPCNKRKYSLNGRQPSCS
 PHHSPTSPHGSPPRVSVTEDTWLGNTTQYTSSAIVAAINALTTDSTLDLGDGVSISRKTALEHVPSVAL
 KVEPAGEDLGTTPPTSDFPPEEFAFQHLRKGAFCEQYLSVPQASYQWAKPKSLSPTSYMSPSLPALDWQL
 PSHSGPYELRIEVQPKSHHRAHYETEGSRGAVKASAGGHPVVQLHGYLENEPLTLQLFIGTADDRLLRPH
 AFYQVHRITGKTVSTTSHEAILSNTKVLEIPLLPENNMRAIIDCAGILKLRNSDIELRKGETDIGRKNTR
 VRLVFRVHIPQPSGRTLSQLVANSPIECSQRSAQELPLVEKQSTDSYPVIGGKMMVLSGHNFLQDSKVIF
 VEKAPDGHVWEMEAKTDRDLCKPNSLVLEIPFRNQRITSPVQVSFYVCNGKRKRSQYQHFTYLPANVP
 IIKTEPTDDFEPALTCGPMSQGLSPLPRPYYSQQLTAPPDPGSCLVAGFAPCSQRNTPMPTSPNASPKLH
 DLSSPAYAKGLANPGHSGHLGLQPPASEAPTMQELPRPMAVQPNSPEQPTSVRLQPQ

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001244933

ORF Size: 2481 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_001244933.1](#), [NP_001231862.1](#)

RefSeq Size: 4132 bp

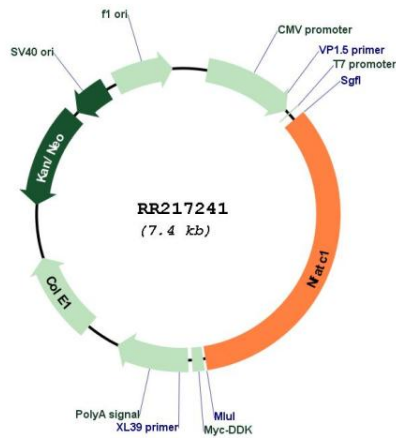
RefSeq ORF: 2484 bp

Locus ID: 100361818

Cytogenetics: 18q12.3

MW: 89.2 kDa

Product images:



Circular map for RR217241