

## Product datasheet for RC220019

### MRF (MYRF) (NM\_013279) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MRF (MYRF) (NM\_013279) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** MRF  
**Synonyms:** 11orf9; C11orf9; CUGS; MMERV; MRF; Ndt80; pqn-47  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC220019 representing NM\_013279  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGATCGCC

ATGCACTGGCTTCCAGCAGGCCACGACATCAACGGTGCCTGGAGCCCTCCAACATAGACACCAGCATCC  
 TGGAGGAGTACATCAGCAAGGAGGATGCCTCCGACCTCTGCTTCCCTGACATCTCTGCTCCAGCCAGCTC  
 GGCCTCTACTCCACGGGCAGCCTGCGATGCCTGGCTCCAGCGGGTCCACCACCTGAGCCCCCTGGG  
 GGTGGACCCTCCCGGGGCGCCATGGTCCCTCCACCCCGGGTACGGCACCCCGCTGAACTGCAACA  
 ACAACAACGGCATGGGCGCTGCCCCAAGCCCTCCCGGGGGCACCGGGCCCCATCAAGGCTGAGCC  
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 CAGCAGGTGAATGAGCCCCACCTCCTGCGCACGATAAACCCTGAGACACTGTGCCAGTGGGAGTGCCCT  
 CCCGCTGGAGCATCCGCCCCACCTCCAGCCACTTGCCAGGCCCCCGCCACCCACCACCCACC  
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 AAGTGGGCGACCCTGTACGATGTAACAAGGAGCTGCCATGCTCACCTACCAGTGGATGCGGACA  
 AGGGCTTCAACTTTTCGGTGGGCGACGACGCTTTGTGTGCCAGAAGAAGAACCTTCCAGGTGACAGT  
 GTACATCGGCATGCTGGGCGAGCCCAAGTACGTCAAGACGCCGAGGGCCTCAAGCCCTCGACTGCTTC  
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AGGTACTTCATGCTGGTGGTGGCCCTCCAGGCTCATGCACAGAACCAGAACTACACGCTGGCCGCCAGAT  
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Protein Sequence:

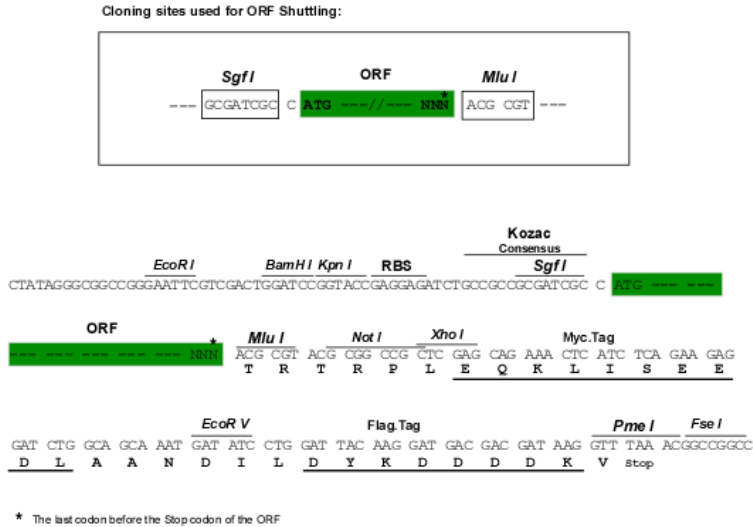
>RC220019 representing NM\_013279  
Red=Cloning site Green=Tags(s)

MHWLPAGHDINGALEPSNIDTSILEEYISKEDASDLCFPDISAPASSASYSHGQPAMPGSSGVHHLSPPG  
GGPSPGRHGPLPPPYGTPLNCCNNNGMAAPKFPFPGGTGPIKAEPKAPYAPGTLPSPPDSGSEAYSP  
QQVNEPHLLRTITPETLCHVGVPSRLEHPPPPAHLPGPPPPPPPPHYVLRDLYMKAEPPIPHYAAM  
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TRAPSPWPQPGLSPGPGSLPLSIARVQTPPWHPGAPSPGLLQSDSLSGSYLDPNYQSIKWQPHQQN  
KWATLYDANYKELPMLTYRVDADKGFNFVGGDAFVCQKKNHFQVTVYIGMLGEPKYVKTPEGLKPLDCF  
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RYFMLVVALQAHAQNQNYTLAAQISERIIVRASNPGQFESDSDVLWQRAQVPDVFHHGRVGINTRDPDE  
ALVVHGNVVMGSLMHPSDLRAKEHVQEVDTTEQLKRISRMRLVHYRYKPEFAASAGIEATAPETGVIAQ  
EVKEILPEAVKDTGDMVFANGKT IENFLVVKERIFMENVGAVKELCKLTDNLETRIDELERWSHLAKL  
RRLDLSTGSSGAFSHAGSQFSRAGSVPHKRPKPVASKSSSVVPDQACISQRFLQGTIIALVVMAFS  
VVMSTLYVLSLRTEDLVDTDGRSSQSFQTTQLRQSPLTTGLPGIQPSLLLVTSLTSSAPGSAVRTLD  
MCSHPCPVICSSPTTNPPTGSPSLGFSFNPVHLSVSPSPSTNRSQPSQALLPVTNIRAKSWGLSVNG  
IGHSKHHKSLPLASPAVFPFGGQKAKNSPSLGFHGRARRGALQSSVGPAPETWAQQGSEVPVSLTSIQ  
VLENSMITSQYCAPGDACRPGNFYHIVSSGTPHLHSLTLQMNSSPVSVVLCSLRSKEEPCEEGLP  
QSLHHTQDTQGTSHRWPITILSFREFTYHFRVALLGQANCSSEALAQPATDYHFFHYRLCD

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_013279

ORF Size: 3333 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\\_013279.4](#)

RefSeq Size: 5745 bp

RefSeq ORF: 3336 bp

Locus ID: 745

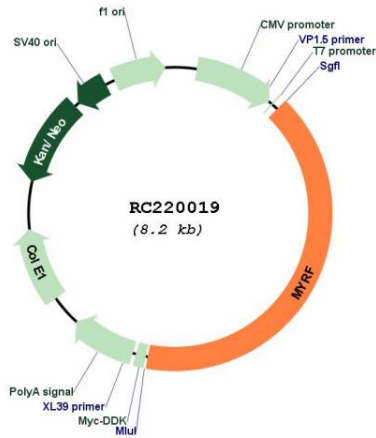
UniProt ID: [Q9Y2G1](#)

**Cytogenetics:** 11q12.2

**MW:** 120.2 kDa

**Gene Summary:** This gene encodes a transcription factor that is required for central nervous system myelination and may regulate oligodendrocyte differentiation. It is thought to act by increasing the expression of genes that effect myelin production but may also directly promote myelin gene expression. Loss of a similar gene in mouse models results in severe demyelination. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2014]

**Product images:**



Circular map for RC220019