

## Product datasheet for **MR224281**

### **Mkrn1 (NM\_018810) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mkrn1 (NM_018810) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mkrn1
Synonyms:	RFP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR224281 representing NM\_018810  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGGAGGCTGCGGCTCCCGGAACAACAGCCACAACATCAGGAGCAGGAGCGGCAGCGCGCGGTGG  
 CAGCGGCCTCCCTCACCTCTATCCCACAGTCGCTGCCCGTCCCGGGGCGGGAGGAGGGGCGCGCG  
 CAGCGACGGCAGCGCGCGGCTGGACGAAACAGGTCACCTGCAGATACTTTATGCATGGGTTTGTAA  
 GAAGGCGATAACTGTCGATACTCTCATGACCTCTCTGACAGTCCATACGGCGTAGTGTGCAAGTATTTT  
 AAAGAGGGTACTGTGTTTATGGAGACCGCTGCAGATACGAACACAGCAAGCCACTGAAACAGGAAGA  
 GACTGCTACTGATCTGAGTGCAAACCTCCCTCGCTGCTTCTCAAGTCTCTTCTGTTGGATCA  
 CTTGCTGAAATGAATTCAGGCGAAGCTGAGTCACGAAACCAAGCTTTCCAAGTGTAGGAGCAGGTT  
 CAGAGGACTGGGTGAATGCCATTGAGTTTGTCCCTGGGCAGCCCTACTGTGGCCGACTGCCCTTCTGC  
 TGAAGTACCCCGCAGGGTTTCAGTGACCAAGGAAGAGTCAGAGAAGGAGCCAACACGGTGGAGACA  
 AAGCAGCTTTGCCCTATGCTGCAGTGGGAGAGTGTGCTATGGGAAAACGTGTGTATCTCCACGGAG  
 ACTCGTGTGACATGTGTGGCCTGCAGGTCCTACCCAGTGGATGCTGCCAGAGGTCACAGCACATAAA  
 ATCTTGCATTGAGGCCATGAGAAGGACATGGAGCTCTTTTTGCTGTTGAGCGCAGCAAGGACATGGT  
 TGTGGGATCTGCATGGAGGTGGTCTATGAGAAAGCCAACCCAGCGAGCGTGCCTTTGGGATCCTCTCA  
 ACTGCAACCACACTACTGTCTCAAGTGTATTGCAAGTGGAGAAGTGTAAACAATTTGAGAGCAAGAT  
 CATAAAGTCTGCCCGAATGCCGGATCACATCTAACTTTGTATTCCAAGTGAAGTGGTGGAGGAG  
 AAAGAAGAGAAGCAGAACTCATTGAGAAATACAAGGAGGCCATGAGCAACAAGGCGTGCAGGATTTT  
 ATGAAGGACGTGGGAGCTGCCATTTGGAGGAACTGTTTTACAAGCATGCGTACCCTGATGCGCGT  
 AGAGGAGCCACAGAGACAGAAAGTGGGAACATCAAGCAGATACCGGGCCCAACGAAGGAGCCACTT  
 GAGCTCATTGAGGAGAGAGAGAACAACCCCTTTGACAACGACGAAGAGGAGGTTGTACCTTTGAGCT  
 GCGAGATGTTGCTTATGCTTTTGGCTGCAGGTGGGACGACGAGCTGACAGACTCTGAGGACGAGTGG  
 CTTGTTTACGATGAGCTGGAGACTTTTATGACTTGGATCTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR224281 representing NM\_018810  
 Red=Cloning site Green=Tags(s)

MAEAAAPGTTATTSGAGAAAAAASLTSIPTVAAPSPGAGGGGGSDGSGGGWTKQVTCRYFMHGVCK  
 EGDNCRYSHLSDSPYGVVCKYFQRGYCVYGDRCRYEHSKPLKQEVTATDLSAKPSLAASSLSSGVGS  
 LAEMNSGEAESRNPSPFTVVGAGSEWVNAIEFVPGQPYCGRTAPSCTEVPPQGSVTKEESEKEPTTVETK  
 KQLCPYAAVGECRYGENCVYLHGDSCDMCGLQVLHPVDAQRSQHIKSCIEAHEKDMELSFVQRSKDMV  
 CGICMEVVEKANPSERRFGILSNCNHTYCLKCIRKWSAKQFESKIIKSCPECRITSNFVIPSENNWVEE  
 KEEKQKLIQKYKEAMSNKACRYFDEGRGSCPFGGNCFYKHAYPDGRREEPQRQKVGTSRYRAQRSHFW  
 ELIEERENPFNDDEEVVTFELGEMLLMLLAAGGDELTDSEDEWDLFHDELEDFYDLDL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_018810

**ORF Size:** 1443 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\\_018810.2](#), [NP\\_061280.2](#)
**RefSeq Size:** 2936 bp

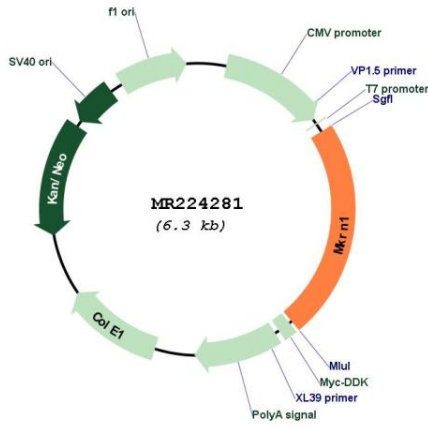
**RefSeq ORF:** 1446 bp

**Locus ID:** 54484

**Cytogenetics:** 6 B1

MW: 53.4 kDa

Product images:



Circular map for MR224281