

Product datasheet for MR225168

Mkx (NM_177595) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mkx (NM_177595) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mkx
Synonyms:	9430023B20Rik; Irx11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225168 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACACCATCGTCTTCAACAAGCTCGGGGGAGCCGTGCTTTTTGAAGACCGAGGCACTCCAGATCGGG
AACGTGGCAGCCGGACGTTCAAGTGGTTTCTGGACAATCCACACACAGGGCCGGAGGTGGGCATACCAGA
CGGCCCGCCCTCAAGGACAACCTCAGCCTGAGACACCGGAGGACAGGGCCCGCAGAATGGAGGGAAG
GTAAGGCATAAAGCAGCAGGCCCTGCAAGACATGGCGCTCCTCTTAAGCAGTGGCTTTACAAGCACCGTG
ACAACCCGTACCCTACGAAGACTGAGAAGATACTTTGGCCCTAGGCTCGCAGATGACGCTAGTGCAGGT
GTCAAATTGGTTCGCTAATGCTAGACGTCGGCTGAAGAACAACGTCGCGCAGCCAGATTTAAGTTGGGCC
TTAAGAATAAAGTTATACAACAAGTATGTTCAAGGCAACGCTGAACGGCTGAGTGTGAGCAGCGATGGCG
ACTCCTGCTCTGAAGATGGAGAAAATCCCCAAGAAAATCACATGAACGAAGAAGGCTACAGCACCCCCGC
CCACCACACTGTGATTAAGGGGAAAGCTCAGCGATAAAAGCTGGCGGCAGACCGGAGTCGAGGGCTGCC
GAGGATTATGTGTACCGCCAAGTATAAGAGCAGCTTGTGAACCGTTACCTAACGACTCCTTGAGAC
ATGTCATGGCCACCAGCACTGCCATGATGGGAAAACAAGGCGAAGGAACCATTCGGGGTCTTTAGCTC
CAACGAATTTGAAGAAGAGTTGGTGTCTCCATCATCATCAGAACTGAAGGCACCTTTGTCTATCGCACA
GACACCCCGACATCGGATCTACTAAGGGTGACAGTGTGCTAACAGAAGGGGACCAAGCAAAGATGACA
CATACTGGAAGGAGATCAATGCAGCCATGGCCTTAACAAACCTTGCCCAAGGAAAAGATGAAGTGCAGGG
GACGACCACAGTTGCATCATCCAGAAGTCTCCACATAGCAGAAGTAAAGACAGTCAAGCTGCCACTG
GTGCAGCGCTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR225168 protein sequence
Red=Cloning site Green=Tags(s)

MNTIVFNKLGGAFLFEDRGTPDRERGSRTFSGFLDNPHTGPEVGPDPPLKDNL SLRHRRTGARQNGGK
 VRHKRQALQDMARPLKQWLYKHRDNPYPKTEKILLALGSQMTLVQVSNWFANARRRLKNTVRQPDLSWA
 LRIKLYNKYVQNAERLSVSSDGDSCSEEDGENPPRNHMNEEGYSTPAHHTVIKGESSAIKAGGRPESRAA
 EDYVSPPKYKSSLLNRYLNDL RHYMATSTAMMGKTRRRNHSGSFSSNEFEELVSPSSSETEGTFVYRT
 DTPDIGSTKGDSAANRRGPSKDDTYWKEINAAMALTNLAQ GKDEVQGTTSIIQKSSHIAEVKTVKLP
 VQRF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_177595

ORF Size: 1065 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_177595.4](#), [NP_808263.2](#)

RefSeq Size: 3201 bp

RefSeq ORF: 1065 bp

Locus ID: 210719

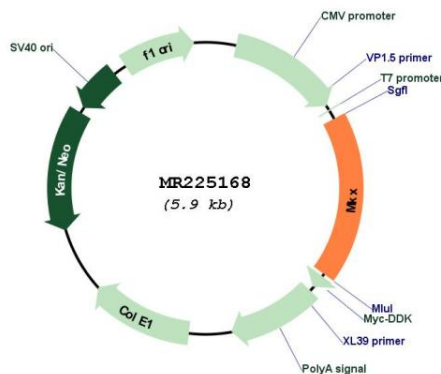
UniProt ID: [Q8BIA3](#)

Cytogenetics: 18 4.53 cM

MW: 39.5 kDa

Gene Summary: May act as a morphogenetic regulator of cell adhesion. Participates in the early events that lead to differentiation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225168