

Product datasheet for **RG206923**

Mohawk homeobox (MKX) (NM_173576) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mohawk homeobox (MKX) (NM_173576) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mohawk homeobox
Synonyms:	C10orf48; IFRX; IRXL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206923 representing NM_173576 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACACCATCGTCTTCAACAAGCTCAGCTCTGCGGTGCTGTTTGAGGACGGAGGCGCCTCGGAGCGGG
AGCGGGGTGGCCGGCCCTACAGCGGTGTCTGGACAGTCTCACGCCGCCCGAGGTGGCATTCCCGA
CGGCCCGCCCTCAAGGACAACCTCGGCCTGAGACACCGAGGACCGGCCCGGCAGAATGGCGGAAG
GTGAGGCACAAGCGGCAGGCCCTGCAAGACATGGCGCGACCCCTCAAGCAGTGGCTTTACAAGCACCGT
ACAACCCGTACCCACCAAGACCGAGAAGATACTTTGGCCCTCGGCTCGCAGATGACGCTAGTGCAGGT
GTCAAATTTGGTTTGTAAATGCAAGAGCTCGGCTTAAGAATACCGTTCGACAGCCAGATTTAAGCTGGGT
TTGAGAATAAAGTTATACAACAAGTATGTTCAAGGCAATGCTGAACGGCTTAGCGTAAGCAGTGATGACT
CATGTTCTGAAGATGGAGAAAATCCTCCAAGAACCACATGAACGAAGGGGGCTATAATACCCAGTTCA
CCATCCTGTGATTAAGTGAGAATTCGGTCATCAAAGCGGGAGTGAGGCCAGAGTACGGGCCAGTGAG
GACTACGTGGCACCCCAATAACAAGAGCAGCTTGTGAACCGTTACCTTAATGACTCTTTGAGACATG
TCATGGCCACGAACACTACCATGATGGGAAAAACAAGGCAAAGAAACCACTCGGGATCTTTAGTCCAA
TGAATTTGAGGAAGAATTAGTGTCTCCATCGTCATCAGAACTGAAGGCAACTTTGTCTATCGCACAGAC
ACTCTGGAAAATGGATCCAATAAGGGTAAAGCGCAGCTAACAGAAAAGGACCAAGCAAGGATGACACGT
ATTGGAAGGAGATCAACGACGCTATGGCTTAACAAATCTTGACAGGGAAAGGACAAACTGCAGGGAAC
TACCAGCTGCATCATCCAGAAGTCGTCCATATAGCAGAAGTAAAGACTGTCAAAGTGCCGCTGGTGCAG
CAGTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206923 representing NM_173576
 Red=Cloning site Green=Tags(s)

MNTIVFNKLSSAVLFEDGGASERERGGRPYSGVLDSPHARPEVGPDPPLKDNLGLRHRRTGARQNGGK
 VRHKRQALQDMARPLKQWLYKHRDNPYPKTEKILLALGSQMTLVQVSNWFANARRRLKNTVRQPDLSWA
 LRIKLYNKYVQNAERLSVSSDDSCSEDGENPPRTHMNEGGYNTPVHHPVIKSENSVIKAGVRPESRASE
 DYVAPPKYKSSLLNRYLNDSLRHVMATNTMMGKTRQRNHSGSFSNEFEELVSPSSSETEGNFVYRTD
 TLENGSNKGESAANRKGPSKDDTYWKEINAAMALTNLAQKDKLQGTTSCTIIQKSSHIAEVKTKVPLVQ
 QF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_173576

ORF Size: 1056 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_173576.1](#), [NP_775847.1](#)

RefSeq Size: 3619 bp

RefSeq ORF: 1059 bp

Locus ID: 283078

UniProt ID: [Q8IYA7](#)

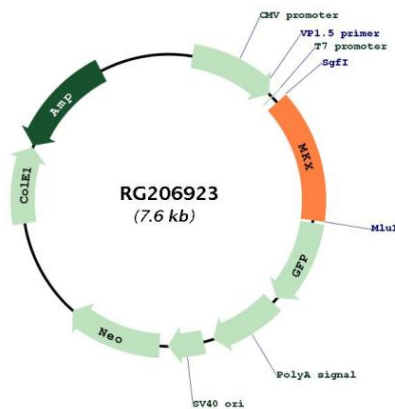
Cytogenetics: 10p12.1

Domains: homeobox

Protein Families: Transcription Factors

Gene Summary: The protein encoded by this gene is an IRX family-related homeobox protein that may play a role in cell adhesion. Studies in mice suggest that this protein may be a regulator of tendon development. Two transcript variants encoding the same protein have been found for this gene.[provided by RefSeq, Jun 2011]

Product images:



Circular map for RG206923