

Product datasheet for **MR226740**

Irx1 (NM_010573) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Irx1 (NM_010573) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Irx1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR226740 representing NM_010573
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCCTTCCCGCAGCTGGGCTACCCGCAATACCTAAGCGCCGCGGGCCCGGGCGCCTATGGTGGAGAGC
 GCCTGGGGTGTGGCTGCGGCCGCGGCTGCTGCGGCCGCGCCTCGTCGGGCCGTCCTCCGGGACTGCGGA
 GCTGGGAGCGGGCGGGAGCGGCCGCGGTACCTCGGTGCTAGGCATGTATGCCGCGCGGGACCGTAC
 GCGGGCGCACCAACTACAGCGCCTTCTTGCCCTATGCCGCGGACCTCAGCCTCTTCTCGCAGATGGGCT
 CTCAGTATGAACTGAAGGACAACCCCGGGTGCACCCAGCGACCTTCGCAGCCACACAACGCTGCTTA
 TTATCCCTATGGTCAGTTTCAATACGGGGATCCCGACGGCCCAAGAAGCCACGCGGGAGAGCACCAGC
 ACGCTGAAAGCCTGGCTCAACGAACACCGCAAGAACCCGTACCCACAAAGGAGAGAAGATTATGCTGG
 CCATTATACCAAGATGACCCTCACACAGGTCTCCACCTGGTTCGCCAATGCGCGCCGGCGCCTCAAGAA
 GGAGAACAAGGTGACTTGGGGGGCGCGCAGCAAGGACCAGGAAGACGGCGCCCTTTTGGCAGCGACACC
 GAGGGCGACCCCGAGAAGGCCGAGGACGACGAGGAGATCGACCTGGAGAGCATTGACATCGATCAGATCG
 ACGAGCGTGATGGCGACCAGAGCAACGAAGACGAAGAGGACAAGGCGGAGGCTCCTAGGGCGCGCTAGC
 CCCTCCCGCCTCAGCTCGGGACCAGAGCTCCCCATTGTCGGCTGCTGAGACACTCAAGTCTCAAGATTTCG
 CCCTTGGGCTGGTTAAGGAGGTCTCAGAGCCCGCAGCACACGCTGCTGAGTCTGGCGCCGCGGCGG
 TCGGCCTCAGGGCGCGCCGACAGCAAGCCCAAGATCTGGTCTCTGGCTGAGACAGCCACTAGCCCCGA
 TGGTGCCTAAGGCGTCTCCACCGCCACCCTCAAGCCACGCCAGCGCACACGGGGCCGCCACGGGCTCA
 CCCCTGCAACACCCGGCCTTTCTACCCAGCCACGGACTGTACACCTGTACATAGGCAAGTTTTCCA
 GGACCAACGGCGGTTCTAGCACAGGGCTCGCTGCTGAACATGCGATCTTCTGGGCTCAGCGCGCC
 GCATGCAGCACCTCACGGCCACACCTGACAGCACACCACCTCCACAGCCGCCAGTCCAGGTTGCCACC
 GGGGTGCTCCATGGTGAAGGCCCTCCGCACGCAGCAGTCTGCACTTCCAGAGAGAGACCTAGTACCA
 GACCGATTTCGCCCCACAACAGTTAAAGTCGCCCTTCCAGCCGGTGCAGGACAACCTCGCTGGCCCCGA
 GGAGGGAACGCTCGGATCCTCGCAGCCCTCCCGTCTGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226740 representing NM_010573
 Red=Cloning site Green=Tags(s)

MSFPQLGYPQYLSAAGPGAYGGERPGVLAASAAAAAASSGRPGTAELGAGAGAAVTSVLGMYAAAGPY
 AGAPNYS AFLPYAADLSLFSQMGSYELKDNPGVHPATFAAHTTPAYYPYQGFQYGDPPGRPKNATRESTS
 TLKAWLNEHRKNPYPTKGEKIMLAIITKMTL TQVSTWFANARRRLKKNKVTWGARSKDQEDGALFGSDT
 EGDPEKAEDDEEIDLESIDIDQIDERDGDQSNEDDEEKAEAPRARVAPPASARDQSSPLSAAETLKSQDS
 PLGLVKEVSEPGSTRLLSPGAAAVGLQGAPHSKPKIWSLAETATSPDGAPKASPPPPSSHASAHGPPSGS
 PLQHPAFLPSHGLYTCHIGKFSNWTNGAFLAQGSLNMRSLGVSAPHAAPHGPHLTAPPPPPVQVAT
 GVLHGEKASARSSPALPERDLVTRPDSPPQQLKSPFPVDRNSLAPQEGTPRILAAALPSA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9047_b03.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_010573

ORF Size: 1440 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_010573.2](#), [NP_034703.2](#)
RefSeq Size: 2080 bp

RefSeq ORF: 1443 bp

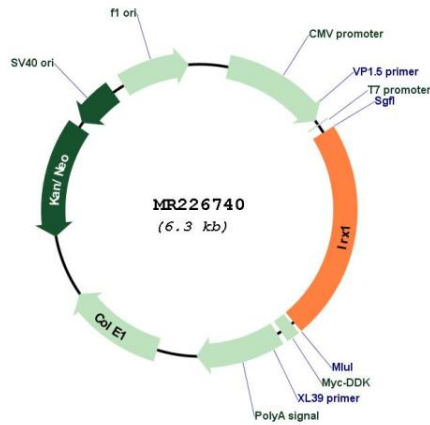
Locus ID: 16371

UniProt ID: [P81068](#)

Cytogenetics: 13 38.43 cM

MW: 50.6 kDa

Product images:



Circular map for MR226740