

Product datasheet for **RR207053**

Irx4 (NM_001107330) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Irx4 (NM_001107330) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Irx4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR207053 representing NM_001107330
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCCTACCCGAGTTTGGATACCCCTATTCTCCGCTCCTCAGTTCCTGATGACCACCAACTCCCTGA
 GCAGTGTCTGCGAGTCGGGCGGCCGACACTGGCTGACTCCGGGCTGCAGCCTCGGCCAGGCGCCGGT
 CTAAGTGTCTACGAGAGCCGGCTGCTGGCCACTGCACGCCACGAATCAATTCTGCCGCCGCGCTC
 GGTGTCTATGGGAGCCCTACAGCAGCTCGCAAGGCTATGGCAATTACGTGACCTATGGTCTGAGGCAT
 CTGCTTTCTACTCGTGAACAGCTTCGAGTCCAAGGATGGCACAGGATCTTCGCACGCCGCGCTACCACC
 CACTGCAGCTGCAGCCTACTACCCTTATGAGCCAACTCTGGGCCAGTACCCTTATGACAGGTACGGAACC
 GTGGACAGCGGCACGCGCGCAAGAATGCCACCCGGGAGACCACCAGCACACTTAAGGCCTGGCTGCAGG
 AGCATCGAAAGAACCCTACCCACAAAGGAGAGAAGATCATGTGGCCATCATACCAAGATGACCTT
 CACACAGTCTCCACCTGGTTCCCAATGCACGCCGCGCCTCAAGAAGGAGAACAAGATGACCTGGCCA
 CCTAGAAATAAATGTGCAGATGAGAAGAGGCCATATGGGGAGGGTGGAGGAGGAAGCTGGAGAGGAGG
 AGTCACGGGAGGAGCCTCTCAAGAGTGTCAAGAGCGAAGGTCTGCTGGCAAAGAGGACAAGGAAGTAGA
 ACTCAGTGACTTGAAGACTTCGACCCTTAGATACAGAAACCTCAGAGTGTGAGCTGAAGACGCCCTTC
 CAGCCCTGGATAGTGTACCAGAGAGGATTCCTCCTTCTGACGGTCTGGCACCGGCAAGGAGGCC
 CTGTACACTCCGGATGCCCTGGGCACTGCTGATGGAGCTGTTATGGATGGGGATCTGGAGAGGGCAGC
 GAACTGCCTCCGAGCACAGTGGTAGCTCCTGACTCTGGCGTGAGGGCGGCCACAAGCCTGCGAAGCT
 AAATGACTTTTGTCCGGCCGGAGCGCCGCAAACTGGAGACCAAGCCCGCATCTGGTCTTGGCGC
 ACACAGTACTGCTGCTGCAGCCACCGCTCTGAGCCAGACTGAGTTCCCTCCTGCATGCTGAAAGCCCA
 AGGTTCAACGGGTGCATCCGCGGTGACGCTGCGTCTCACCTGCAGTCCCGGCCGCTTCTGGAAGTCTG
 GATAGGCACCAAGACTCCCCAGTAACTAGCCTCAGAAACTGGGTGGATGGTGTATTTTCATGATCCCATCC
 TTAGACACAGCACTTTGAACCAGGCCTGGGCCACCGCTAAGGGCGCACTTCTGGATCCCGGCCCTTAGG
 ACGCAATCTGGGGCGGGTACCAACGACTGACGACGCCCTGGCTTGTCTCCTCCGACCTACGGTGCC
 CAAGACGTCTCACCTGCAGGGGCTCCCGGAGCTGCTGGCTACGCCAAGGCCAGTGGCAAACCTTCT
 GCACT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

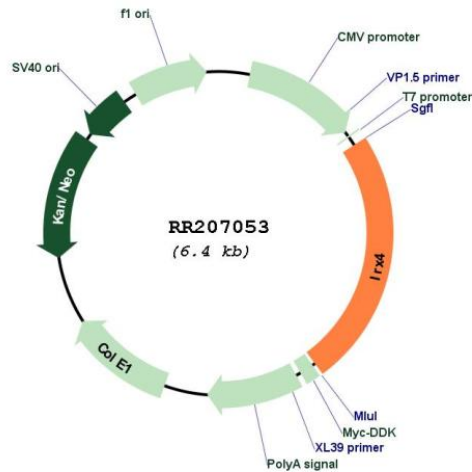
>RR207053 representing NM_001107330
 Red=Cloning site Green=Tags(s)

MSYPQFGYPYSSAPQFLMTTNSLSTCCESGGRTLADSGPAASAQAPVYCPVYESRLLATARHELNSAAAL
 GYVGSPYSSSQGYGNVYTGSEASAFYSLNSFESKDGTS SHAGLPPTAAAAYPYEPTLQYYPYDRYGT
 VDSGTRRKNATRETTSTLKAWLQEHKKNPYPTKGEKIMLAIITKMTLTQVSTWFANARRRLKKNKMTWP
 PRNKCADEKRPYGESEEEEEAGEEESREEPLKSVKSEGPAGKEDKELELSDLEDFDPLDTETSECEKTPF
 QPLDSVPERIPPSDGPVTGKEAPVTLRMPLGTADGAVMDGLERARNCLRSTVVAPDSGAEGGPQACEA
 KLTFAPAGAPPNLETKPRIWSLAHTATAAATALSQTEFPSCMLKRQGSTGASAVTPASSPAVPAASGTL
 DRHQDSPVTSLRNWDVGFHDPILRHSTLNQAWATAKGALLDPGPLGRNLGAGTNVLTPLACFRPTVP
 QDVSPAGASRELLATPKASGKPFCT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Plasmid Map:


ACCN: NM_001107330

ORF Size: 1545 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_001107330.1](#), [NP_001100800.1](#)

RefSeq Size: 2564 bp

RefSeq ORF: 1548 bp

Locus ID: 306655

Cytogenetics: 1p11

MW: 54.9 kDa