

Product datasheet for **RR214978**

Irx3 (NM_001107413) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Irx3 (NM_001107413) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Irx3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR214978 representing NM_001107413 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGGCCATCATCACCAAAATGACCCTACCCAGGTGTCCACCTGGTTCGCCAACGCGCGCCGGCGCC
TCAAGAAGGAAAACAAGATGACGTGGGCTCCCCGTAGTCGCACGGACGAGGAGGGCAATGCTTATGGGAG
CGAGCGGGAGGAGGAGGACGAAGAGGAAGACGAGGAAGAGGGCAAACGCGAGCTGGAGATGGAGGAGGAG
GAGCTCGCAGGAGGAGGAGGACCGGGGGCGAGGGCCTGGCCGACGACGACGAGGATGAGGAGATCG
ATTTGGAAAACCTAGACAGCGCGCAGCCGGGTGCGAACTAACCTGGCTGGGACGCGCATAGGAACGG
AGACTTCGGCCTAGGACCCATTTTCAGACTGCAAAAATAGCGACTCGGACGACAGCTCCGAAAGCTTGGAG
GAGCGACCACTGTCCGTCTGAGCTTGGCTCCCGGCCACCGCCCGTGGCCAGGGCTCCTGCGTCTCCAC
CTTCTCCACCCTCCGGCCTGGACCCCTGCGCTCCGGCACCGCGCCCTCCTCCACCCTCCAGAAGCCCAA
GATCTGGTCACTGGCCGAGACGGCCACTAGCCCGACAACCCACGTGATCGCCTCCCGGAGCCGGAGGT
TCTCTCCCGGGCAGCCGTTGCGCCCCGACGCTGCAGCTCTCGCCCGGGCCGCCGACGCGGCTGCTG
CAGCACACAGACTGGTGTGGCGCCGCTTGGCAAATCCCGCTTGGACCAACAGGCCTTCCAGGCC
GCCGGCCGCTCCCGGCCGACCCGCTGTCCATGCTAGGCTCGGCCCCACAGCACCTGCTGGACTTCCC
GGACCAGAGAGTGGAACAGATCGCTGTAGTGCCTTGAAGTGGAGAAAAAGTTACTTAAGACAGCTTCC
AGCCGGTGCCAAGGCGGCCCCAGAACCCTGGATGCTGCTCTGGTCTTATCAGCTCTCTTCTGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR214978 representing NM_001107413
Red=Cloning site Green=Tags(s)

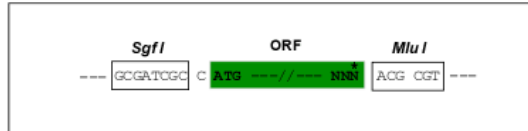
MLAIITKMLTQVSTWFANARRRLKKNKMTWAPRSRTDEEGNAYGSEREEEEDEEEEGKRELEMEE
 ELAGEEEDTGGEGLADDEDEEIDLENLDSAAAGSEL LAGTAHRNGDFLGPISDCKNSDSDSSSESL
 ERPLSVLSLAPAPPVVARAPASPPSPPSGLDPCAPAPASSTLQPKIWSLAETATSPDNPRRSPPGAGG
 SPPGAAVAPPTLQLSPAAAAAAAAAHRLLVSAPLGKFPWNTNRPFPGPPAGPRPHPLSMLGSAPQHLLGLP
 GPESGTDRCSALEVEKLLKTAFAQVPRRPQNHLDAAALVLSALSSS

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_001107413

ORF Size: 978 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_001107413.1](#), [NP_001100883.1](#)

RefSeq Size: 1567 bp

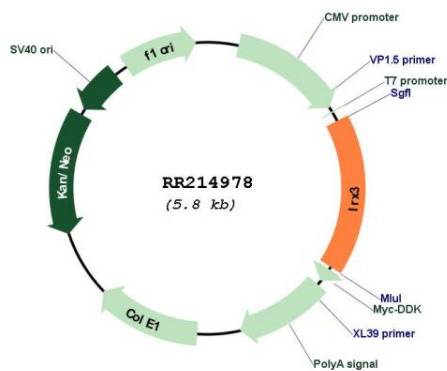
RefSeq ORF: 981 bp

Locus ID: 307721

Cytogenetics: 19p11

MW: 34.3 kDa

Product images:



Circular map for RR214978