

Product datasheet for **MR224397**

Islr2 (NM_001161536) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Islr2 (NM_001161536) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Islr2
Synonyms:	B930052A04Rik; Linx; Mbu-3; mKIAA1465
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR224397 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGGGCCCTTTGGAGCCCTGTGTTTGGCCTGGGCTTTGCTAGGAGTGGTCAGAGCGTGTCCCGAGCCTT
GCGCCTGTGTTGACAAGTACGCCACCAGTTTGCAGACTGTGCCTACAAGGAGCTGCGCGAGGTCCCAGA
AGGACTGCCAGCCAACGTGACCACGCTTAGTCTGTCTGCCAACAAAGATTACGGTACTAAGCGGGGGGCC
TTCGTCACAGTACGCAGGTCACTTCGCTGTGGCTGGCTCACAGTGAGGTACGCACGGTAGAGTCAGGGG
CATTGGCAGTGTGAGTCAGCTCAAGAACCTCGACCTAAGCCACAACCTTATATCCAACCTCCCTTGGAG
CGACCTTCGTAACCTTGGCGCGCTGCAGCTGTGAAAATGAACCACAACCGTCTGGGATCGCTGCCCGG
GATGCACTCGGCGCGCTCCGGACCTGCGCTCTCTGCGCATCAACAACAACCGGCTGCGTACCCTGGAGC
CCGGCACGTTTCGACGCACTAAGCGCGCTGTCTCACCTGCAACTCTATCACAACCCCTTCCACTGCAGCTG
TGGTCTCGTGTGGCTGCAGGCCCTGGGCAGCGAGCACCCGGGTCTCCTTACCGGAGCCGATTCTATAGCG
TGGCCTCGCCCCCTGAGCTGCAGGGCGTGCCCGTGCACCGCCTGCCCGCCTGCCCTGCGCACCCCCCA
CGGTGCGTCTGAGCGCAGAGCCGCCCTGAGGCACCTGGCACCCCTCTGCGCGCAGGCTTGGCTTTCAT
GTTACATTGCGTCGCCGAAGGCCACCCACACCCCGCCTGCAATGGCAACTTCAGATCCCGGGTGGCACT
GTAGTCTTAGTGCCACCGGTTCTCAGCAAGGAAGAAGTGGAGGAGATAAGGTGGAGGATGGAGAGGGTG
ACGGAGATGAGGACCTGCCTACGCAGACTGAAGCGCCAACCCCAACTCCAGCACCTGCTTGGCCAGCGCC
TCCAGCCACCCCGCGCTTCTTGGCCCTCGCAAATGGCTCTCTGTTGGTGCCCTTCTGAGTGCCAAGGAG
GCAGGCATCTACACTTGTCTGTCACACAATGAGCTGGGCACCAACTCAACGTCTTACGGGTGACGGTGA
CTGCAGCGGGCCGCAAAAACAGCTCCTGGAACAGGGGAAGAACCTGATGCGCAGTCCCGACCTCTGA
GCGCAAGGCCACCACTAAGGGCCGTAGCAACAGGCTCCTGCCCTTCAAGCCTGAAGGCAAAAACCAAGGC
CAAGGTCTTGCCGAGTACGCTGCTTGGGAAAATCGAGGCAGAGCTGGAGGAGACAGATGAAGGAGAGC
AGATGGAAGGTCAGATCCCTGCAGATCCGATGGGAGAGAAGCACTGTGGCCATGGGGACCCCTCTCGCTA
TGTGTCTAACCATGCATTCAACCAGAGCTCAGATCTCAAGCCGCACGTTTTTGGATTGGCGTCACTCGG
CTGGATGTAGCAGAGCGTGAGGCTCGGGTGCAGCTGACGCCTTGTCTGCGCGCTGGGGCCCTGGCCAG
ATGGTGTAGCGGAGCGCGGGCCGGGAGGCGGCCACTGCGCCTACTCTATCTGTGCTCCTGCGGGGGG
TGGCACGGCAGTTCAGTGGTACGAGTGAAGAGGGGGTCAATGCCTACTGGTTTCGCGGCTGCGGCT
GGCACCAACTACTCCGTATGCTGGCACTGGCGGGCGAGGCGTGTACGTCAGGTGGTGTCTTCTACCA
AGAAAGAACTGCCGTCCCTGCTGTTATCGTGACCGTGAGTGTCTTCTCCTGGTGTGGCCACCGTGCC
CCTGCTGGGTGCCGCTGCTGCCATCTGCTGGCCAAACATCCGGGCAAACCTACCGTTTAACTCTGAGG
CCACAGGCCCCGGACCCTATGGAGAAACGCATCGCGGCCGATTTTCGATCCGCGTGCTTCTACCTTGGT
CTGAGAAAAGCTACCTGCTCGTGGCGAGGCGGGAGGTGAGGAGCCAGAGGAGGTCCCGGAGGAAGGCT
GGATGAAGATGTGGAGCAGGGGGACCAAGCGGGACCTTTCAGAGAGAGGAAAGCCTGGCGGGTTGCTCA
TTGGTGGAGTCTCAGTCCAAGGCCAACCAAGAGGAGTTTCGAGGCTGGCTCGGAGTACAGCGATCGGCTGC
CCCTGGGAGCGGAAGCAGTCAACATCGCCAGGAAATAAACGGCAACTACAGGCAGACAGCGGGC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR224397 protein sequence
 Red=Cloning site Green=Tags(s)

MGPF^{Red}GALCLAWALLGVVRACPEPCACVDKYAHQFADCA^{Green}YKELREVPEGLPANVTTL^{Green}SLSANKITVLR^{Green}RGAFVNV^{Green}TQV^{Green}TS^{Green}LWLAHSEVRTVESGALAVLSQLKNLDL^{Green}SHNLSNFPWSDLRNL^{Green}SALQLLKMNNHRLGSL^{Green}PRDALGALPDLRSLRINNRLR^{Green}TLEPGTFDAL^{Green}SALSHLQLYHNPFHCSCGLVWLQAWAASTRVSLPEPDSIACASPP^{Green}ELQGV^{Green}PVHRLPALPCAPPSVRLSAEPPPEAPGTPLRAGLAFMLHCVAEGHPT^{Green}RLQWQLQIPGGTVVLVPPVLSKEEDGGDKVEDGEGDGEDLPTQTEAPTTPAPAWPAPPATPRFLALANGSLLVPLL^{Green}SAKEAGIYTCRAHNELGTNSTSLRVTVAAGPPKHAPGTGEEPDAQVPTSERKATTKGRS^{Green}NSVLPFKPEGKTKGQGLARVSVLGEIEAELEETDEGEQMEGQIPADPMGEKHC^{Green}HGDPSRYVSNHAFNQSSDLKPHVFELGVIALDVAEREARVQLTPLAARWGPDPDGASGARRPGRRLRLLYLCPAGGGTAVQWSRVEEGVNA^{Green}YWFRGLRPGTNYSVCLALAGEACHVQVVFSTKKELPSLLVIVTVSVFLLVLATVPLLGAACCHLLAKHPKPYRLILRPQAPDPMEKRIAADFDPRASYLESEKSYPARGEAGGEEPEEVPEEGLDEDVEQGDPSGDLQREESLAGCSLVESQSKANQE^{Green}EFEAGSEYS^{Green}DRPLPLGAEAVNIAQEINGNYRQTAG

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_001161536

ORF Size: 2235 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_001161536.1](#), [NP_001155008.1](#)

RefSeq Size: 4319 bp

RefSeq ORF: 2238 bp

Locus ID: 320563

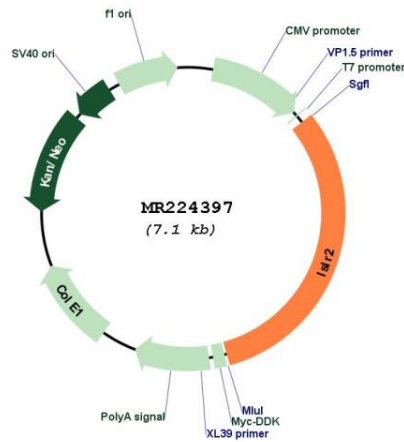
UniProt ID: [Q5RKR3](#)

Cytogenetics: 9 B

MW: 79.8 kDa

Gene Summary: Required for axon extension during neural development.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224397