

Product datasheet for **MR223998**

Islr2 (NM_001161540) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Islr2 (NM_001161540) 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:

>MR223998 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGGGCCCTTTGGAGCCCTGTGTTTGGCCTGGGCTTTGCTAGGAGTGGTCAGAGCGTGTCCCGAGCCTT
GCGCCTGTGTTGACAAGTACGCCACCAGTTTGCAGACTGTGCCTACAAGGAGCTGCGCGAGGTCCCAGA
AGGACTGCCAGCCAACGTGACCACGCTTAGTCTGTCTGCCAACAAGATTACGGTACTAAGCGGGGGGCC
TTCGTCACAGTACGCAGGTCACTTCGCTGTGGCTGGCTCACAGTGAGGTACGCACGGTAGAGTCAGGGG
CATTGGCAGTGTGAGTCAGCTCAAGAACCTCGACCTAAGCCACAACCTTATATCCAACCTCCCTTGGAG
CGACCTTCGTAACCTTGGCGCGCTGCAGCTGTGAAAATGAACCACAACCGTCTGGGATCGCTGCCCGG
GATGCACTCGGCGCGCTCCGGACCTGCGCTCTCTGCGCATCAACAACAACCGGCTGCGTACCCTGGAGC
CCGGCACGTTTCGACGCACTAAGCGCGCTGTCTCACCTGCAACTCTATCACAACCCCTTCCACTGCAGCTG
TGGTCTCGTGTGGCTGCAGGCCCTGGGCAGCGAGCACCCGGGTCTCCTTACCGGAGCCGATTCTATAGCG
TGGCCTCGCCCCCTGAGCTGCAGGGCGTGCCTGTCACCGCCTGCCCGCCTGCCCTGCGCACCCCCCA
GCGTGCCTGAGCGCAGAGCCGCCCTGAGGCACCTGGCACCCCTCTGCGCGCAGGCTTGGCTTTCAT
GTTACATTGCGTCGCCGAAGGCCACCCACACCCCGCCTGCAATGGCAACTTCAGATCCCGGGTGGCACT
GTAGTCTTAGTGCCACCGGTTCTCAGCAAGGAAGAAGTGGAGGAGATAAGTGGAGGATGGAGAGGGTG
ACGGAGATGAGGACCTGCCTACGCAGACTGAAGCGCCAACCCCAACTCCAGCACCTGCTTGGCCAGCGCC
TCCAGCCACCCCGCGCTTCTTGGCCCTCGCAAATGGCTCTCTGTTGGTGCCCTTCTGAGTGCCAAGGAG
GCAGGCATCTACACTTGTCTGTCACACAATGAGCTGGGCACCAACTCAACGTCTTACGGGTGACGGTGA
CTGCAGCGGGCCGCAAAACACGCTCCTGGAACAGGGGAAGAACCTGATGCGCAGTCCCGACCTGTA
GCGCAAGGCCACCACTAAGGGCCGTAGCAACAGGCTCCTGCCCTTCAAGCCTGAAGGCAAAACCAAGGC
CAAGGTCTTGCCGAGTACGCTGCTTGGGAAATCGAGGCAGAGCTGGAGGAGACAGATGAAGGAGAGC
AGATGGAAGGTCAGATCCCTGCAGATCCGATGGGAGAGAAGCACTGTGGCCATGGGGACCCCTCTCGCTA
TGTGTCTAACCATGCATTCAACCAGAGCTCAGATCTCAAGCCGCACGTTTTTGGATTGGCGTCACTCGG
CTGGATGTAGCAGAGCGTGAAGCTCGGGTGCAGCTGACGCCTCTGCTGCGCGCTGGGGCCCTGGCCAG
ATGGTGTAGCGGAGCGCGGGCCGGGAGGCGGCCACTGCGCCTACTCTATCTGTGCTCCTGCGGGGG
TGGCACGGCAGTTCAGTGGTACGAGTGAAGAGGGGGTCAATGCCTACTGGTTTCGCGGCTGCGGCT
GGCACCAACTACTCCGTATGCTGGCACTGGCGGGCGAGGCGTGTACGTCAGGTGGTGTCTTCTACCA
AGAAAGAACTGCCGTCCCTGCTGTTATCGTGACCGTGAGTGTCTTCTCCTGGTGTGGCCACCGTGCC
CCTGCTGGGTGCCGCTGCTGCCATCTGCTGGCCAAACATCCGGGCAAACCTACCGTTTAACTCTGAGG
CCACAGGCCCCGGACCCTATGGAGAAACGCATCGCGGCCGATTTTCGATCCGCGTGTCTTCTACCTTGA
CTGAGAAAAGCTACCTGCTGCTGGCGAGGCGGGAGGTGAGGAGCCAGAGGAGGTCCCGGAGGAAGGCT
GGATGAAGATGTGGAGCAGGGGGACCAAGCGGGACCTTCAAGAGAGAGGAAAGCCTGGCGGGTTGCTCA
TTGGTGGAGTCTCAGTCCAAGGCCAACCAAGAGGAGTTTCAGAGGCTGGCTCGGAGTACAGCGATCGGCTG
CCCTGGGAGCGGAAGCAGTCAACATCGCCAGGAAATAAACGGCAACTACAGGCAGACAGCGGGC

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR223998 protein sequence
 Red=Cloning site Green=Tags(s)

MGPF^{Red}GALCLAWALLGVVRACPEPCACVDKYAHQFADCA^{Green}YKELREVPEGLPANVTTL^{Red}SLSANKITVLRGA
 FVNVTQV^{Red}TSWL^{Green}AHSEVRTVESGALAVLSQLKNLDL^{Red}SHNLSNFPWSDLRNL^{Green}SALQLLKMNNHRLGSLPR
 DALGALPDLRSLRINNRLRTLEPGTFDAL^{Red}SALSHLQLYHNPFHCSCGLVWLQAWAASTRVSLPEPDSIA
 CASPP^{Red}ELQGV^{Green}PVHRLPALPCAPPSVRLSAEPPPEAPGTPLRAGLAFMLHCVAEGHPTPRLQWQLQIPGGT
 VVLVPPVLSKEEDGGDKVEDGEGDGEDLPTQTEAPTTPAPAWPAPPATPRFLALANGSLLVPLL^{Red}SAKE
 AGIYTCRAHNELGTNSTSLRVTVAAGPPKHAPGTGEEPDAQVPTSERKATTKGRS^{Green}NSVLPFKPEGKTKG
 QGLARVSVLGEIEAELEETDEGEQMEGQIPADPMGEKHC^{Green}HGDPSRYVSNHAFNQSSDLKPHVFELGVIA
 LDVAEREARVQLTPLAARWGPGPDGASGARRPGRRLRLLYLCPAGGGTAVQWSRVEEGVNA^{Green}YWFRGLRP
 GTNYSVCLALAGEACHVQVVFSTKKELPSLLVIVTVSVFLLVLATVPLLGAACCHLLAKHPKPYRLILR
 PQAPDPMEKRIAADFDPRASYLESEKSYPARGEAGGEEPEEVPEEGLDEDVEQGDPSGDLQREESLAGCS
 LVESQSKANQEEFEAGSEYS^{Red}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_001161540

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_001161540.1](#), [NP_001155012.1](#)

RefSeq Size: 4005 bp

RefSeq ORF: 2238 bp

Locus ID: 320563

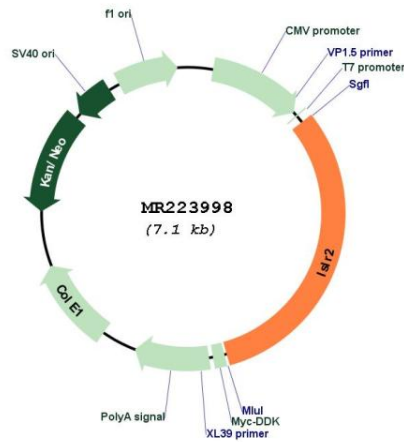
UniProt ID: [Q5RKR3](#)

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 MR223998