

Product datasheet for **MR223162**

Islr2 (NM_001161537) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Islr2 (NM_001161537) 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:

>MR223162 representing NM_001161537
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGGCCCTTTGGAGCCCTGTGTTTGGCCTGGGCTTTGCTAGGAGTGGTCAGAGCGTGTCCCGAGCCTT
GCGCCTGTGTTGACAAGTACGCCACCAGTTTGCAGACTGTGCCTACAAGGAGCTGCGCGAGGTCCCAGA
AGGACTGCCAGCCAACGTGACCACGCTTAGTCTGTCTGCCAACAAAGATTACGGTACTAAGCGGGGGGCC
TTCGTCACAGTACGCAGGTCACTTCGCTGTGGCTGGCTCACAGTGAGGTACGCACGGTAGAGTCAGGGG
CATTGGCAGTGTGAGTCAGCTCAAGAACCTCGACCTAAGCCACAACCTTATATCCAACCTCCCTTGGAG
CGACCTTCGTAACCTTGGCGCGCTGCAGCTGTGAAAATGAACCACAACCGTCTGGGATCGCTGCCCGG
GATGCACTCGGCGCGCTCCGGACCTGCGCTCTCTGCGCATCAACAACAACCGGCTGCGTACCCTGGAGC
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CGGTGCGTCTGAGCGCAGAGCCGCCCTGAGGCACCTGGCACCCCTCTGCGCGCAGGCTTGGCTTTCAT
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TCCAGCCACCCCGCGCTTCTTGGCCCTCGCAAATGGCTCTCTGTTGGTGCCCTTCTGAGTGCCAAGGAG
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GCGCAAGGCCACCACTAAGGGCCGTAGCAACAGGCTCCTGCCCTTCAAGCCTGAAGGCAAAACCAAGGC
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ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR223162 representing NM_001161537
Red=Cloning site Green=Tags(s)

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MGPFGALCLAWALLGVVRACPEPCACVDKYAHQFADCA YKELREVPEGLPANVTTL SLSANKITVLRGA
FVNVTQVTSWL AHSEVRTVESGALAVL SQLKNLDL SHNLSNFPWSDLRNL SALQLLKMNHNLGSLPR
DALGALPDLRSLRINNRLR TLEPGTFDAL SALSHLQL YHNPFHCSGL VWLQAWAASTRVSLPEPDSIA
CASPPQLQGVVHRLPALPCAPPSVRLSAEPPPEAPGTP LRAGLAFMLHCVAEGHPTPRLQWLQIPGGT
VVLVPPVLSKEEDGGDKVEDGEGDDELPTQTEAPTPTPAPAWPAPPATPRFLALANGSLLVPLL SAKE
AGIYTCRAHNELGTNSTSLRVTVAAGPPKHAPGTGEE PDAQVPTSERKATTKGRSNSVLPFKPEGKTKG
QGLARVSVLGEIEAELEETDEGEQMEGQIPADPMGEKHC GHGDPSTRYVSNHAFNQSSDLKPHV FELGVIA
LDVAEREARVQL TPLAARWGPGPDGASGARRPGRRL RLLYLC PAGGGTAVQWSRVEEGVNA YWFRGLRP
GTNYSVCLALAGEACHVQVVFSTKKELPSLLVIVTVSVFLLV LATVPLLGAACCHLLAKHPGKPYRLILR
PQAPDPMEKRIAADFDPRASYLESEKSYPARGEAGGEEPEE VP EEGLEDVEQGDPSGDLQREESLAGCS
LVESQSKANQEEFEAGSEYSDRLPLGAEAVNIAQEINGNYRQTAG
    
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9004_c11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001161537

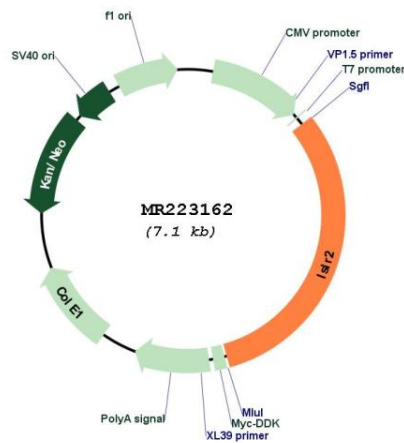
ORF Size: 2235 bp

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_001161537.1](#), [NP_001155009.1](#)
- RefSeq Size:** 4310 bp
- RefSeq ORF:** 2238 bp
- Locus ID:** 320563
- UniProt ID:** [Q5RKR3](#)
- Cytogenetics:** 9 B
- MW:** 80.2 kDa
- Gene Summary:** Required for axon extension during neural development.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223162