

Product datasheet for **RR202873**

Isl2 (NM_020471) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Isl2 (NM_020471) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Isl2
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >RR202873 representing NM_020471
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTGGATATTATTTTTCATTATCCTTTTCTGGGTGCTATGGGGATCATTCCAAGAAGAAGCCCGGA
 CGGCCATGTGCGTGGGCTGCGGGAGTCAGATCCACGACCAGTTTATCCTTCGGGTGTGCCCCGACCTCGA
 GTGGCACGCCCGCTGCCTCAAGTGCCTGAGTGCAGCCAGTATCTGGATGAGACGTGCACGTGCTTCGTG
 AGAGACGGGAAAACGTAAGTCAAGCGGGACTACGTCAGGCTGTTCCGGCATCAAGTGTGCCAGTGCAGG
 TGGGCTTCAGCAGCAGTGACCTGGTGTATGCGGGCGGGACAGCGTGTACCACATCGAGTGTCTCCGCTG
 CTCCGTGTGCAGCCGCCAGCTGCTCCCTGGAGACGAGTTCTCGCTGAGGGAGCACGAGCTGCTCTGCCGA
 GCCGACCACGGCCTCCTGCTGGAGCGCGCTGCGGCCGGCAGCCCGCAGCCCTGGCCCGCTCCCCGGCA
 CCCCACCAGGCCTGCATCTGCCAGACGCGGGTCCGGACAACAGGTCTCACTGCGCACGCAGTGCACAA
 GCAGGGCGAGAAGACAACCCGGGTGCGGACTGTGCTCAACGAGAAGCAACTGCACACCCTGCGGACATGC
 TACGCCGCAACCCGCGGCCGACGCGCTCATGAAGGAGCAGCTGGTAGAGATGACCGGCTTGAGCCCGC
 GGGTCAATCCGCGTGTGGTTTCAGAACAAGCGTTGCAAGGACAAGAAGAAGTCCATTCTCATGAAGCAGT
 ACAGCAGCAGCAACACAGCGACAAGGCGAGTCTCCAGGGACTAACTGGGACGCTCCTGGTGGCGGGCAGC
 CCATCCGCCCATGAGAACCCGTGCAGGGCAGCGCAGTGCAGGTGCAGACGTACCAGCCGCCCTGAAAAG
 CTCTCAGCGAGTTCGCACTCCAGAGCGACTGGATCAACCCGCCCTTCAACAGCTGGTCTCCTTCTCCGA
 GTCAGGCTCCCTAGGCAACTCCTCTGGTAGCGAGTGACCTCTGTCTTCGAGCTCCCGGACACCCCC
 AACAGTATGGTACCTAGTCCGGTGGAGACG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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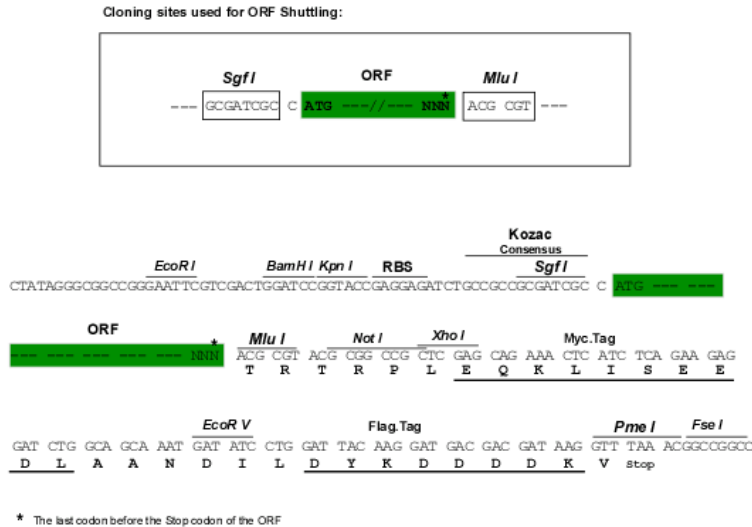
Protein Sequence: >RR202873 representing NM_020471
Red=Cloning site Green=Tags(s)

MVDIIFHYPFLGAMGDHSKKKPGTAMCVGCGSQIHDQFILRVSPDLEWHAACLKCAECSQYLDETCTCFV
 RDGKTYCKRDYVRLFGIKCAQCQVGFSSSDLVMRARDSVYHIECFRCSVCSRQLLPGDEFSLREHELLCR
 ADHGLLLERAAAGSPRSPGPLPGTPPGLHLPDAGSGQQVSLRTHVHKQAEKTRVRTVLNEKQLHLTRTC
 YAANPRPDALMKEQLVEMTGLSPRVIRVWFQNKRCCKDKKKSILMKQLQQQHQSDKASLQGLTGTLVAGS
 PSAHENAVQGSAAVEVQTYQPPWKALSEFALQSDLDQPAFQQLVSFSESGSLGNSSGSDVTSLSQLPDTPT
 NSMVPSPVET

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020471

ORF Size: 1080 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_020471.1](#), [NP_065204.1](#)

RefSeq Size: 1298 bp

RefSeq ORF: 1083 bp

Locus ID: 57233

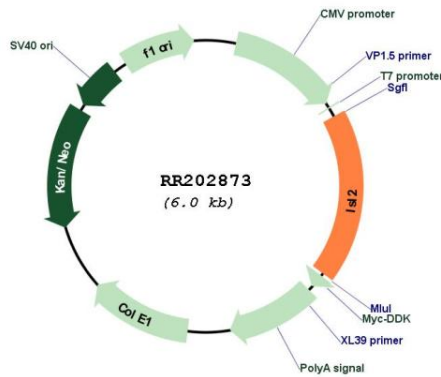
UniProt ID: [P50480](#)

Cytogenetics: 8q24

MW: 39.7 kDa

Gene Summary: LIM homeobox transcription factor; involved in topographic organization of motor neurons [RGD, Feb 2006]

Product images:



Circular map for RR202873