

Product datasheet for **MR208826**

Isyna1 (NM_023627) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Isyna1 (NM_023627) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Isyna1
Synonyms:	1300017C10Rik; AU018670
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208826 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCCCGCCGCCGAGATCCTCGTGGATAGCCCGGACGTGGTCTACAGCCCCGAAACCATCGAGGCGC
 GCTACGAGTACCGGACAACGCGCGTACGCCGCGAGGGCGCGTGTGCGGGTGCAGCCCAGGGCTACGCG
 TTTACCTTCCGCACCGCCCGGAGGTGCCCGACTCGGGTCACTGTTGGTGGTGGGGCGGGAACAAC
 GGCTCCACGCTCACTGCTGCTGTTCTGGCCAATCGGCTGCGCCTAACCTGGCCCACGCGCACAGGTGCGA
 AGGAGGCAAATAATTGATCGTTGACCCAGGCGGGCACCGTGAACCTGGGTTTGGATGAGAACGGCCG
 GGAGGTGTTTGTGCCCTCAGTGCCTGCTACCATGGTGGCCCCAACGACCTGGTGTGTTGATGGCTGG
 GATATCTCGTCGCTGAACCTGGCCGAGGCCATGCGGCGCGCAGGTCTGGACTGCGGTCTGCAGGAAC
 AGCTGTGGCCCCACATGGAGAGCTGCGTCCGCGGCCCTCAGTCTACATTCTGAGTTTCATCGTGCCAA
 CCAGACAGCACGTGCGGACAACCTCATCCCTGGCACACGTGCCAACAGTTGGAGCAAATCCGAAAGGAC
 ATTAGAGATTTCCGATCCAGTGCGGGATTGGATAAGGTATCGTGTGTTGGACCCCAATACGGAGCGCT
 TCTGCGAGGTGGTCCCAGGTGCAATGACACAGCTGAAAACCTGCTACATACTATCCAGCTTGGCCTGGA
 GGTGTCACCGTCCACACTTTTTGCTGTGGCCAGCATCCTGGAGGACTGCGCCTTCTCAATGGATCCCCA
 CAGAACACACTGGTACCCGGTGCCTGGAACCTGGCTTCGACGCGCCATGTGTTTGTAGGTGGTGTGACT
 TCAAGTCAGGGCAGACTAAGGTCAAGTCTGTCTGGTGGACTTCTCATCGGCTCTGGGCTCAAGACCAT
 GTCCATCGTGAGCTATAACCACCTGGGCAACAACGACGGGCAGAACCTGTCTGCACCGCTGCAGTTCCGC
 TCCAAGGAGGTGACAAAGAGCAGTGTGGTGGACGACATGGTTCACAGCAACCATGTGCTCTACCGCCTG
 GAGAGCGCCAGACCCTGTGTGGTATCAAATATGTGCCCTATGTTGGGACAGCAAGCGTGGCTTGGGA
 CGAGTACACCTCCGAGCTGATGCTGGTGGGACAAACACCTTGGTGTCCATAATACCTGCGAGGACTCG
 CTCTGCGCGGCCCATCATGCTGGACCTAGTGTGCTCACAGAGCTGTGTCAGCGCGTGAAGTCTGCA
 CAGACTCGACCCCGAGCCTCAGGGCTTCCACACAGTGTGCTCCTGCTTAGCTTCTGTTAAGGCCCC
 GCTTGTGCCCCCGGAGCCCTGTGGTGAATGCCCTTCCGCCAGCGCAGCTGTATCGAGAATATTTTC
 AGGGCTTGCCTGGGGCTCCCGCCCAGAACCATGCTATTAGAGCACAAGATGGAGCGTCCAGGCCAG
 GCATCAAGCCAGGAGAGGTGGTGGCCACCAGCCACTGCCTTGAAGAAAGAGCCACACCTGCCACCAA
 TGGCTGCACCGCGATGCCAATGGCACCCGACGCCAACACCAAAGCTGTCCACTGCT

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

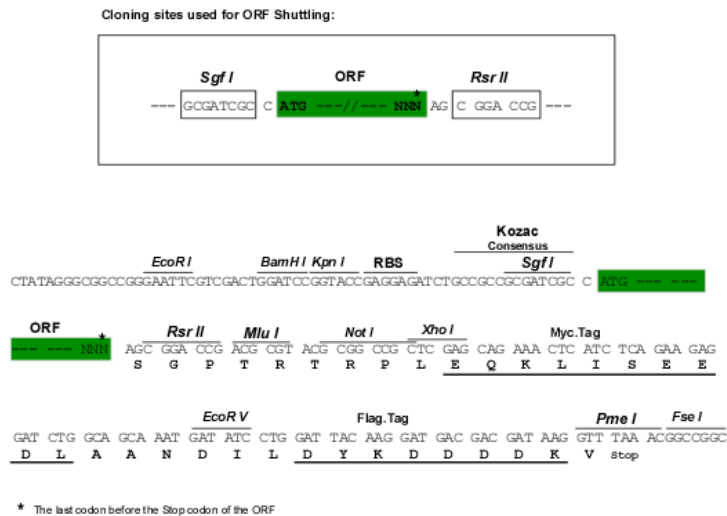
>MR208826 protein sequence
 Red=Cloning site Green=Tags(s)

MEPAEILVDSPDVVYSPETIEARYEYRTRVRSREGVLRVQPRATRFTRFRTARQVPRLVGMLVWGWN
 GSTLTAAVLANRLRLTWPTRTGRKEANYGSLTQAGTVNLGLDENGREVFVPSALLPMVAPNDLVFDGW
 DISSLNLAEMRRAQVLDCLQEQLWPHMESLRPRPSVYIPEFIAANQTARADNLIPGTRAQQLEQIRKD
 IRDFRSSAGLDKVIWLWTANERFCEVVPGRNDAENLLHTIQLGLEVSPSTLFAVASILEDCAFNGSP
 QNTLVPGALELASQRHVFGDDFKSGQTKVKSVLVDFLIGSGLKTMISVSYNHLGNNDGQNLAPLQFR
 SKEVTKSSVVDDMVHNSHVL YAPGERPDHCVVIKYVPYVGD SKRALDEYTS ELM LGGTNTLV LHNTCED S
 LLAAPIMLDL VLL TELCQRVSFCTDSDPEPQGFHTVL SLLSFLFKAPLVPPGSPVVALFRQRSC IENIF
 RACVGLPPQNHMLLEHKMERPGPIKPGEVVATSP L PCKKEPTPATNGCTGDANGHPQAPT PKLSTA

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_023627

ORF Size: 1674 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_023627.1](#), [NP_076116.1](#)

RefSeq Size: 1850 bp

RefSeq ORF: 1674 bp

Locus ID: 71780

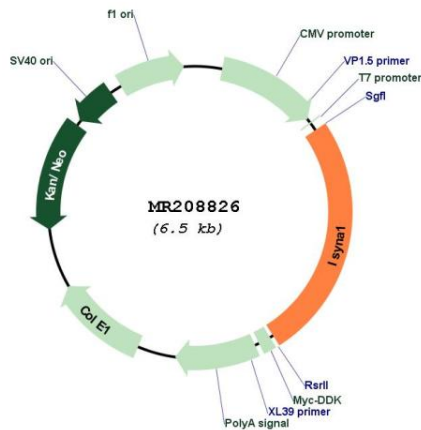
UniProt ID: [Q9JHU9](#)

Cytogenetics: 8 B3.3

MW: 60.9 kDa

Gene Summary: Key enzyme in myo-inositol biosynthesis pathway that catalyzes the conversion of glucose 6-phosphate to 1-myo-inositol 1-phosphate in a NAD-dependent manner. Rate-limiting enzyme in the synthesis of all inositol-containing compounds (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208826