

Product datasheet for RC205785

ISY1 (NM_020701) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ISY1 (NM_020701) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ISY1
Synonyms:	FSAP33
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205785 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC

ATGGCCCGAAATGCAGAAAAGGCCATGACGGCCTTAGCAAGATTCGCCAGGCTCAGCTGGAAGAGGGAA
AAGTGAAGGAACGAAGACCCTTCTGGCCTCAGAATGTAAGTGAAGTGCCTAAAGCTGAGAAGTGGAGACG
ACAGATCATTGGAGAGATCTCTAAAAAGTGGCTCAGATTCAGAATGCTGGTTTAGGTGAATTCGAATT
CGTGACCTGAATGATGAAATTAACAAGCTGCTAAGGGAGAAAGGACACTGGGAGGTCCGGATAAAGGAGC
TGGGAGGTCTGATTATGAAAAGTTGGCCCTAAAATGCTGGATCATGAAGGAAAAGAAGTCCCAGGAAA
CCGAGGTTACAAGTACTTTGGAGCAGCAAAGATTTGCCTGGTGTAGAGAGCTGTTGAAAAGAACCT
CTTCTCTCCCAGAAAGACACGTGCTGAGCTCATGAAGCAATCGATTTTGAGTACTATGGTTACCTAG
ATGAAGATGATGGTGTATTGTGCCTTTGGAACAGGAATATGAAAAGAACTCAGAGCCGAGTTAGTGGA
AAAGTGGAAAGCAGAGAGAGAGGCTCGGCTGGCAAGAGGAGAAAAGGAAGAGGAGGAGGAAGAGGAGGAA
GAGATCAACATCTATGCAGTCACCGAGGAGGAGTCGGACGAGGAAGGCAGCCAGGAGAAAAGGAGGGGACG
ACAGCCAGCAGAAGTTCATTGCTCAGTCCCTGTTCCCTCGCAGCAAGAGATTGAGGAGGCACTGGTGCC
AAGGAAGAAAATGGAACCTCCAGAAGTATGCAAGCGAGACCTGCAGGCCAAAAGTGAAGAAGCCAGA
AGGCTCCTGGGTAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC205785 protein sequence
Red=Cloning site Green=Tags(s)

MARNAEKAMTALARFRQAQLEEGVKERRPFLASECTELPKAEKWRRIIGEISKKVAQIQNAGLGEFRI
 RDLNDEINKLLREKGHWEVRIKELGGPDYGVKVPKMLDHEGKEVPGNRYKYFGAAKDLPGVRELFEKEP
 LPPPRKTRAEMLKAIDFEYYGYLDEDDGVIVPLEQEYKLRRAELVEKWAEREARLARGEKEEEEEEE
 EINIYAVTEEEESDEEGSQEKGGDDSQQKFAHVPVPSQQEIEEALVRRKMEMLLQKYASETLQAQSEEAR
 RLLGY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6326_h07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_020701

ORF Size: 855 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_020701.4](#)

RefSeq Size: 3778 bp

RefSeq ORF: 858 bp

Locus ID: 57461

UniProt ID: [Q9ULR0](#)

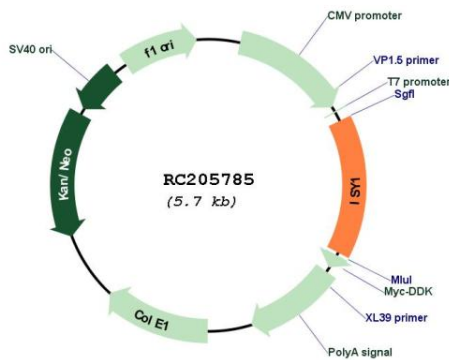
Cytogenetics: 3q21.3

Protein Pathways: Spliceosome

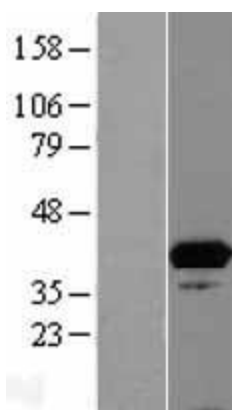
MW: 33 kDa

Gene Summary: Involved in pre-mRNA splicing as component of the spliceosome.[UniProtKB/Swiss-Prot Function]

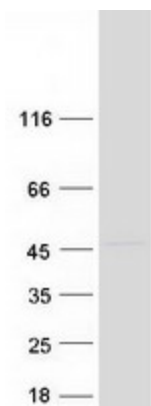
Product images:



Circular map for RC205785



Western blot validation of overexpression lysate (Cat# [LY412394]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205785 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ISY1 protein (Cat# [TP305785]). The protein was produced from HEK293T cells transfected with ISY1 cDNA clone (Cat# RC205785) using MegaTran 2.0 (Cat# [TT210002]).