

## Product datasheet for **SC120620**

### ISY1 (NM\_020701) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ISY1 (NM_020701) Human Untagged Clone
Tag:	Tag Free
Symbol:	ISY1
Synonyms:	FSAP33
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC120620 sequence for NM_020701 edited (data generated by NextGen Sequencing)

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ATGGCCCCGAAATGCAGAAAAGGCCATGACGGCCTTAGCAAGATTTGCCAGGCTCAGCTG
GAAGAGGGAAAAGTGAAGGAACGAAGACCCTTTCTGGCCTCAGAATGTAAGTGAACGCCT
AAAGCTGAGAAGTGGAGACGACAGATCATTGGAGAGATCTCTAAAAAAGTGGCTCAGATT
CAGAATGCTGGTTTAGGTGAATTTGCAATTCGTGACCTGAATGATGAAATTAACAAGCTG
CTAAGGGAGAAAAGGACACTGGGAGGTCCGGATAAAGGAGCTGGGAGGTCCTGATTATGGA
AAAGTTGGCCCTAAAATGCTGGATCATGAAGGAAAAGAAGTCCCAGGAAACCGAGGTTAC
AAGTACTTTGGAGCAGCAAAAGATTTGCCTGGTGTAGAGAGCTGTTTAAAAAGAACCT
CTTCCTCCTCCCAGAAAGACACGTGCTGAGCTCATGAAGGCAATCGATTTTGAGTACTAT
GGTTACCTAGATGAAGATGATGGTGTATTGTGCCTTTGGAACAGGAATATGAAAAGAAA
CTCAGAGCCGAGTTAGTGGAAAAGTGGAAAGCAGAGAGAGAGGCTCGGCTGGCAAGAGGA
GAAAAGGAAGAGGAGGAGGAAGAGGAGGAAGAGATCAACATCTATGCAGTCACCGAGGAG
GAGTCGGACGAGGAAGGCAGCCAGGAGAAAAGGAGGGGACGACAGCCAGCAGAAAGTTCATT
GCTCACGTCCCTGTTCCCTCGCAGCAAGAGATTGAGGAGGCACTGGTGCAGGAAGAAA
ATGGAACCTCCAGAAGTATGCAAGCGAGACCCTGCAGGCCAAAGTGAAGAAGCCAGA
AGGCTCCTGGGTATTAG
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Clone variation with respect to NM\_020701.3



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_020701 unedited            GTAATACGACTCACTATAGGGCCGCGCAATTCGGCACGAGGGTCTTCTGGGCCTGTGG            AGTTTCTTGACAGGGGCCGCGGGCTCCAGGACGGCGCCCTTAGCGACACCATGGCCCC            AAATGCAGAAAAGGCCATGACGGCCTTAGCAAGATTCGCCAGGCTCAGCTGGAAGAGGG            AAAAGTGAAGGAACGAAGACCCTTCTGGCCTCAGAATGACTGAACTGCCTAAAGCTGA            GAAGTGGAGACGACAGATCATTGGAGAGATCTCTAAAAAAGTGGCTCAGATTCAGAATGC            TGGTTTAGGTGAATTTTGAATTCGTGACCTGAATGATGAAATTAACAAGCTGCTAAGGGA            GAAAGGACACTGGGAGGTCCGGATAAAGGAGCTGGGAGGTCTGATTATGGAAAAGTTGG            CCCTAAAATGCTGGATCATGAAGGAAAAGAAGTCCCAGGAAACCGAGGTTACAAGTACTT            TGGAGCAGCAAAAGATTTGCCTGGTGTAGAGAGCTGTTTGAAAAAGAACCTTCTCTCC            TCCCAGAAAGACCGTGTGAGCTCATGAAGGCAATCGATTTTGGAGTACTATGGTTACCT            AGATGAAGATGATGGTGTATTGTGCCTTTGGAACAGGAATATGAAAAGAAACTCAGAGC            CGAGTTAGTGGAAAAGTGGAAAGCAGAGAGAGAGGCTCGGCTGGCAAGAGGGAGATAAGG            AAGAGGAGGGAGAAGAGGANGAANANATCAACATCTATGCAGTCCAGGAGGAGTTCGA            CGAAGAAGGCACNCAGAGAAGGGAGGGANCGACAGCAGCAGAAGTCATTGCTCACGTCCC            TGGTCCCTCGCACAGAGATTGAGGAGGCACTGGTGCGAAGGAGAAATGGGACTCTNCAGA            GTTGCAGNCGAGACCTGCAGCCNAGTGA</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_020701 unedited            CCCCCCCCCCNCCNCCACCCNCCNNAATTTGATTTGTACCCGGCCGACTACTAGA            TCGAGTTTTTTTTTTTTTTTTTTTTTGTGGGACAGNATCTCACTCTGTGCGCCAGGCTGGAGTG            CAATGGCAGGATCTTGGCTCACTTCAACCTCCACCTCTCGGGTTCAAGTGATTCTCCTGC            CTCAGCCTCCCAAGCAGCTGGGACTACAGGTGCATGCCAGTACGCCCAGCTAATTTTTTTT            GTATTTTTAGTAGACATGGGGTTTACCATGTTGGCCAGGATGGTCTCCATCTCTTGACC            TCGTGACCCGCCGCTCGGCCTCCCAAAGTGCTGGGGTTACAGGCGTGAGCCACTGCGC            CTGGCCACATCATCTCATTTCCTCAAGAGATGTGTCTTTTAGAAAACCTGCATTTTTTAA            ACTATACTCTGGCCTGCAAAAAATTGCATTTTTAAATGCTCGCCACTAATTGATTCTTCC            TCCCCTCAAAATGGCAGTGCCAGTTAAAATAAGACACAGGCAGCCAGCTTGCAACCTGT            TGCATACACTCCACAATAAAAAATAAAATGGATCCCCACCGTAGCCAAATATGCGTACCA            AACCTACCAGGAAAACAGGGACACGAACCCCTACCCCTCCGGTCCACATCGACACAGG            CCAGGGAAAGAAGGCCGTTACATGGGGCAGGACCCCTGTATTACCAACCTGTGCCCGCA            CCCCCGGCCCTGAAGTCCCCTGCCGCTCGGAACAACCCCAAGGCAAGCCCAAGTTGGCC            CCTATTCCCCCAGGAGCTTTTCGCGCTTTTCCATTTTGGGCCCTGCAGGGGCTTGCCCTG            CTTACTCCGGAACGCGCCCATCTTTTCTCTCCACCCACAGCCCCCTCAATTTTTTG            TCTCTGGGCGACACGGCCACGGCCAAAGAACCTCTGCTGC</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_020701
<b>Insert Size:</b>	1630 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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\\_020701.1](#), [NP\\_065752.1](#)

**RefSeq Size:** 1776 bp

**RefSeq ORF:** 858 bp

**Locus ID:** 57461

**UniProt ID:** [Q9ULR0](#)

**Cytogenetics:** 3q21.3

**Protein Pathways:** Spliceosome

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

Transcript Variant: This variant (2) lacks an exon in the coding region but maintains the reading frame, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1.