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Product datasheet for MC225318

Son (NM_178880) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Son (NM_178880) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Son
Synonyms:	2900011L12Rik; AA409051; AU067731; C81487; mKIAA1019; nrebp
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC225318 representing NM_178880 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCGGCCGACATCGAGCAGGTTTTCAGGTCTTTCGTGGTCAGTAAATTCCGGGAAATACAACAGGAGC TTTCCAGTGGAAGGAGTGAAGGCCAGCTGAATGGTGAAACAAATCCACCCATTGAAGGGAACCAGGCAGG TGACACAGCTGCCTCTGCAAGGAGTCTCCCAAATGAAGAAATAGTGCAGAAGATAGAGGAGGTCCTCTCT GGGGTCTTAGATACGGAGCTGCGGTACAAGCCCGACTTGAAAGAGGCCTCCAGAAAAAGTAGATGCGTAT CTGTGCAAACAGATCCTACTGATGAAGTGCCCACCAAAAAGTCAAAGAAGCATAAAAAGCACAAAAACAA AAAGAAGAAAAAGAAGAAAGAAAAAGAAAAAAAATATAAAAGACAACCAGAAGAATCTGAGTCCAAGCTG AAATCTCATCATGATGGGAATCTAGAATCTGATTCCTTCTTAAAGTTTGATTCTGAACCTTCAGCAGCGG CACTGGAACATCCTGTAAGAGCGTTTGGCTTATCTGAGGCCAGTGAGACCGCCTTAGTGCTGGAACCTCC AGTAGTCTCAATGGAGGTTCAGGAGTCACACGTTCTAGAGACTCTGAAGCCAGCTACAAAAGCTGCAGAA CTGTCAGTTGTGTCTACATCAGTAATCTCAGAGCAGTCTGAGCAGCCTATGCCAGGTATGCTGGAACCAT CAATGACAAAGATCCTGGATTCCTTCACAGCAGCACCAGTGCCTATGTCAACAGCGGCGCTGAAGTCACC TGAGCCCGTTGTAACAATGTCAGTGGAATATCAGAAGTCTGTGCTGAAATCTTTGGAGACTATGCCTCCA GAGACGTCAAAGACCACGCTGGTAGAGCTTCCCATAGCAAAAGTGGTTGAGCCATCAGAAACCCTCACGA TAGTGTCAGAGACACCTACTGAGGTGCACCCTGAACCAAGCCCATCAACAATGGATTTTCCAGAGTCATC TACAACTGACGTGCAAAGATTGCCAGAGCAGCCTGTAGAAGCACCATCGGAGATTGCAGATTCATCCATG ACAAGACCTCAGGAGTCACTGGAGCTGCCTAAGACCACAGCGGTGGAGCTGCAGGAGTCGACGGTGGCCT CAGCTCTGGAGTTGCCGGGGCCACCTGCGACCTCCATTCTGGAGTTGCAGGGGCCCCCTGTGACTCCAGT GCCAGAGTTGCCTGGGCCCTCTGCCACCCCAGTGCCAGAGTTGTCAGGGCCCCTTTCTACCCCAGTGCCT GAGTTGCCAGGGCCCCCTGCGACAGTGGTCCCTGAGTTGCCGGGGCCCTCTGTGACACCAGTGCCACAGT TGTCGCAGGAATTGCCAGGGCCTCCAGCACCATCCATGGGGTTGGAGCCACCACAGGAGGTACCAGAGCC ACCTGTGATGGCACAGGAGTTATCAGGGGTGCCTGCAGTGTCGGCAGCGATAGAGTTGACAGGGCAACCT GCAGTAACAGTAGCAATGGAGTTGACCGAACAACCTGTGACGACGACAGAGTTCGAGCAGCCTGTGGCGA

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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_178880

Insert Size: 7335 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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

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_178880.4, NP_849211.3

RefSeq Size: 8451 bp

RefSeq ORF: 7335 bp

Locus ID: 20658

UniProt ID: Q9QX47

Cytogenetics: 16 53.22 cM

Gene Summary: RNA-binding protein that acts as a mRNA splicing cofactor by promoting efficient splicing of transcripts that possess weak splice sites. Specifically promotes splicing of many cell-cycle and DNA-repair transcripts that possess weak splice sites, such as TUBG1, KATNB1, TUBGCP2, AURKB, PCNT, AKT1, RAD23A, and FANCG. Probably acts by facilitating the interaction between Serine/arginine-rich proteins such as SRSF2 and the RNA polymerase II. Also binds to DNA; binds to the consensus DNA sequence: 5'-GA[GT]AN[CG][AG]CC-3' (By similarity). Essential for correct RNA splicing of multiple genes critical for brain development, neuronal migration and metabolism, including TUBG1, FLNA, PNKP, WDR62, PSMD3, PCK2, PFKL, IDH2, and ACY1 (By similarity). May also regulate the ghrelin signaling in hypothalamic neuron by acting as a negative regulator of GHSR expression (PubMed:20876580).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).