

Product datasheet for **SC322074**

SMU1 (NM_018225) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMU1 (NM_018225) Human Untagged Clone
Tag:	Tag Free
Symbol:	SMU1
Synonyms:	BWD; fSAP57; SMU-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_018225, the custom clone sequence may differ by one or more nucleotides

```

ATGTCGATCGAAATCGAATCTTCGGATGTGATCCGCCTTATTATGCAGTACTGAAGGAGAACAGTTTAC
ATCGGGCGTTAGCCACCTTGCAGGAGGAGACTACTGTGTCTCTGAATACTGTGGACAGCATTGAGAGTTT
TGTGGCTGACATTAACAGTGGCCATTGGGATACTGTGTTGCAGGCTATACAGTCTCTGAAATTGCCAGAC
AAAACCCCTCATTGACCTCTATGAACAGGTTGTTCTGGAATTGATAGAGCTCCGTGAATTGGGTGCTGCCA
GGTCACCTTTTGAGACAGACTGATCCCATGATCATGTTAAAAACAAACACAGCCAGAGCGATATATTCATCT
GGAGAACCTTTTGCCAGGTCTTACTTTGATCCTCGTGAGGCATACCCAGATGGAAGTAGCAAAGAAAAG
AGAAGAGCAGCAATTGCCAGGCCTTAGCTGGCGAAGTCAGTGTGGTGCCTCCATCTCGTCTCATGGCAT
TGCTGGGACAGGCACTGAAGTGGCAGCAGCATCAGGGATTGCTTCTCCTGGTATGACCATAGATTTGTT
TCGAGGCAAGGCAGCTGTCAAAGATGTGGAAGAAGAAAAGTTTCTACACAAGTGCAGGAGCATATTAAG
TTTGGTCAGAAATCACATGTGGAGTGTGCTCGATTTTCTCCAGATGGTCAGTATTTGGTCACTGGGTCTG
TTGATGGATTCATTGAAGTATGGAACCTTACTACTGAAAAATCAGAAAGGATCTTAAGTACCAGGCCCA
AGATAACTTTATGATGATGGATGATGCTGTCTCTGCATGTGTTTCAGCAGAGATACAGAAATGTTAGCA
ACTGGGGCCCAAGATGAAAAATCAAGGTGTGGAAGATTCAGAGTGGACAATGTTTAAAGGAGATTTGAGA
GGGCACACAGTAAGGGTGTACCTGTCTAAGCTTTTCTAAGGATAGCAGTCAGATCCTTAGTGCTTCTTT
TGACCAGACAATTAGAATTCATGGTTTAAAAATCTGGGAAAACCCCTGAAGGAATTTTCGTGGCCATTCTCC
TTTGTTAACGAAGCAACATTTACACAAGATGGACATTACATTATTAGTGCATCCTCTGATGGCACTGTAA
AGATCTGGAATATGAAGACCACAGAATGTTCAAATACCTTTAAATCCCTGGGCAGCACCCGAGGGACAGA
TATTACCGTCAACAGTGTGATTCTACTTCTAAAAACCCCTGAGCACTTTGTGGTGTGCAACAGATCAAAC
ACGGTGGTCATCATGAACATGCAGGGGAGATTGTCAGAAGCTTCAGTTCTGGTAAAAGAGAAGGTGGGG
ACTTTGTTTGCTGTGCCCTCTCTCCCGTGGTGAATGGATCTACTGTGTAGGGGAGGACTTTGTGCTCTA
CTGTTTACGTACAGTCACTGGCAAACCTGGAGAGAACTTTGACAGTGCACGAGAAGGATGTGATTGGTATT
GCACATCACCTCATCAGAACCTGATTGCTACCTACAGTGAAGATGGACTCCTAAAGCTCTGAAAACCAT
AA
    
```

- Restriction Sites:** Please inquire
- ACCN:** NM_018225
- OTI Disclaimer:** 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_018225.2](#), [NP_060695.2](#)

RefSeq Size: 7091 bp

RefSeq ORF: 1542 bp

Locus ID: 55234

UniProt ID: [Q2TAY7](#)

Cytogenetics: 9p21.1

Domains: WD40, LisH, CTLH

Gene Summary: Involved in pre-mRNA splicing as a component of the spliceosome (PubMed:28781166). Regulates alternative splicing of the HSPG2 pre-mRNA (By similarity). Required for normal accumulation of IK (PubMed:24945353). Required for normal mitotic spindle assembly and normal progress through mitosis (By similarity).[UniProtKB/Swiss-Prot Function]