

Product datasheet for **SC123332**

NSE2 (NSMCE2) (NM_173685) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: NSE2 (NSMCE2) (NM_173685) Human Untagged Clone
Tag: Tag Free
Symbol: NSMCE2
Synonyms: C8orf36; MMS21; NSE2; ZMIZ7
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)
Cell Selection: None
Fully Sequenced ORF: >OriGene ORF sequence for NM_173685 edited

```
CCACGCGTCCGGCCCGCTCACTTTTCAGCGCAGGCGAAGGGGCTGAGGAAAGGAGG
TGGGTCTAGGCAGGGGAAATTGGGTGCCACCAGACGGAGACAGCTTGGACTACAGAAT
CAAGCACTCTTTTGAAGAGGGTAATCTCTCTCCAAAACTGAGGACACTTACCTTCCC
ATATATTGAGTCCAGCTGTGTTGGTGGCCAGGTAATAATTTCAAGATGCCAGGACGTT
CCAGTTCAAATTCAGGTTCAACTGGTTTCATCTCCTTCAGTGGTGTAGAGTCTGCTCT
CCTCCTTGAAAACTTCCAAGCCTGTATCAACTCTGGTATGGACACAGCTTCTAGTGTG
CTTTGGATCTTGTGAAAGTCAGACTGAAGTGAGTAGTAATATAGTATGGACAAGGCAA
TGTTGAAATTTGTACATTGGATCGGCAACTAAACCATTATGTAAGGCTGTTCAATCTA
CAATAAATCATGTGAAAGAAGAAGCTCCAGAAAAATACCAAGATTTAAAAATTATTGGTAG
AGAAGAAATTTTTGGCTTTACAGAGCAAGAATTCTGATGCAGACTTTCAAATAATGAAA
AATTTGTACAGTTTAAACAACAGCTGAAAGAATAAAGAAGCAATGTGGTCTTCAAGCTG
ACAGAGAAGCTGACGGAACAGAAGGAGTGGATGAAGATATAATTTGTGACCCAAAGTCAGA
CCAATTCACCTGCCCATTAACAAGGAGGAAATGAAGAAGCCAGTGAAAAATAAAGTGT
GTGGCCACACCTATGAAGAGGACGCCATTGTTGCGATGATTGAGTCCAGGCAAAAGCGGA
AGAAAAAGGCCTATTGCCCTCAAATTTGGCTGTAGCCACACGGATATAAGAAAGTCAGATC
TTATCCAGGATGAAGCACTTAGAAGGGCAATTGAGAACCATAACAAGAAAAAGACATCGTC
ATTCCGAGTAGGAAAAGCCACCTGCCTGCAGGGACACCAGCAGCCTACCTCCTACCCAG
CTGTCTGTTGAGAGCAGTGTGACCCACAGGTTAGGGACTGGCTGCATAGCATACTTGT
TGGGGTAAAACTTGTGCTTTTATGTGTGCTTGAACATTTTTCAAAGTTACACAACA
GAAATGCAATCATATTGTTTATTTTAAGTGTCTATAATGTTAAATAAACTTTGATCA
TCTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
```

Restriction Sites: Please inquire
ACCN: NM_173685
Insert Size: 1258 bp



[View online »](#)

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).
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:	<ol style="list-style-type: none">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_173685.1 , NP_775956.1
RefSeq Size:	1258 bp
RefSeq ORF:	744 bp
Locus ID:	286053
UniProt ID:	Q96MF7
Cytogenetics:	8q24.13
Gene Summary:	<p>This gene encodes a member of a family of E3 small ubiquitin-related modifier (SUMO) ligases that mediates the attachment of a SUMO protein to proteins involved in nuclear transport, transcription, chromosome segregation and DNA repair. The encoded protein is part of the structural maintenance of chromosomes (SMC) 5/6 complex which plays a key role genome maintenance, facilitating chromosome segregation and suppressing mitotic recombination. A knockout of the orthologous mouse gene is lethal prior to embryonic day 10.5. Naturally occurring mutations in this gene, that abolish the SUMO ligase activity, are associated with primordial dwarfism and extreme insulin resistance. [provided by RefSeq, Mar 2017]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1). Variants 1-3 encode the same isoform (1).</p>