

Product datasheet for **SC114098**

NSMCE4A (NM_017615) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NSMCE4A (NM_017615) Human Untagged Clone
Tag:	Tag Free
Symbol:	NSMCE4A
Synonyms:	C10orf86; NS4EA; NSE4A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114098 sequence for NM_017615 edited (data generated by NextGen Sequencing)

ATGTCTGGGGACAGCAGCGGCCGCGGGCCAGAGGGCCGGGGCCGGGGCCGACCCGCAT
CGGGATCGCACCCGCTCCCGCTCCCGCTCGCGGTCCCCTTTGTGCCCCAGGTCCC GCCG
GGCTCTGCGCGGGAGCGCAGAGAGGCCCCAGAGCGCCGAGCCTGGAGGACACAGAGCCG
TCGGATTCCGGGGACGAGATGATGGACCCGCCAGCTTGGAGGCGGAGGCCGACCAAGGC
CTGTGCCGCCAGATCCGCCATCAGTACCGGGCGCTCATCAACTCCGTCCAACAAAACCGT
GAGGACATACTGAATGCCGGTGACAAATTAACAGAGGTCCTTGAAGAGGCTAACACTCTG
TTAATGAAGTGTCCCGAGCAAGAGAAGCAGTCTGGATGCCCACTTTCTGTTTTGGCT
TCAGATTTGGGCAAGAGAAAAGCAAAGCAGCTGCGCTCAGACCTGAGCTCCTTTGACATG
TTAAGATATGTTGAACTCTACTCACACATATGGGTGTAATCCGCTAGAAGCTGAAGAA
CTCATCCGTGATGAAGATAGTCCTGATTTTGAATTCATAGTCTATGACTCCTGGAAGATA
ACAGGCAGAACAGCAGAAAACACCTTTAATAAAACCCATACATTCCACTTTCTGTTGGGT
TCAATATACGGAGAGTGCCCTGTGCCAAAGCCACGAGTTGATCGTCCAAGAAAAGTTCCT
GTGATACAAGAGGAGAGGGCAATGCCTGCCCAGTTAAGAAGAATGGAAGAATCTCATCAA
GAAGCAACAGAGAAAGAAGTAGAAAGATCTTGGGATTGTTGCAGACATATTTTCGAGAA
GATCCTGATACCCCAATGCCTTCTTTGACTTTGTGGTTGATCCTCATTCTTTCCCCCGT
ACAGTGGAAAAACATCTTTCATGTTTCCTTATTACGGGATGGTTTTGCAAGAATAAGA
CTTGACCAAGACCGACTGCCAGTAATAGAGCCTGTTAGTATTAATGAAGAAAATGAGGGA
TTTGAACATAACACACAAGTTAGAAATCAAGGAATTATAGCTTTGAGTTACCGTGACTGG
GAGGAGATTGTGAAGACCTTTGAGATTTGAGAGCCTGTGATTACTCCAAGTCAGAGGCAG
CAGAAGCCAAGTGCTTGA

Clone variation with respect to NM_017615.2



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_017615 unedited GTATACGACTCACTATAGGGCGGCCGGAATTCGCACGAGGGAACCTCCGCCGTTCCGAA GTTGCACGGTGAATTGGCGCTATGTCTGGGGACAGCAGCGGCCGCGGCCAGAGGGCCGG GGCCGGGGCCGCGACCCGCATCGGGATCGCACCCGCTCCCGCTCCCGCTCGCGGTCCCCT TTGTGCGCCAGGTCCCGCCGCGGCTCTGCGCGGGAGCGCAGAGAGGCCCCAGAGCGCCCG AGCCTGGAGGACACAGAGCCGTGCGATTCCGGGACGAGATGATGGACCCGGCCAGCTTG GAGGCGGAGGCCGACCAAGGCCTGTGCCGCCAGATCCGCCATCAGTACCGGGCGCTCATC AACTCCGTCCAACAAAACCGTGAGGACATACTGAATGCCGGTGACAAATTAACAGAGGTC CTTGAAGAGGCTAACTCTGTTTAATGAAGTGTCCCGAGCAAGAGAAGCAGTCTTGAT GCCCACTTTCTTGTGTTTGGCTTCAGATTGGGCAAAGAGAAAGCAAAGCAGCTGCGCTCA GACCTGAGCTCCTTTGACATGTTAAGATATGTTGAACTCTACTCACACATATGGGTGTA AATCCGCTAGAAGCTGAAGAACTCATCCGTGATGAAGATAGTCTGATTTTGAATTCATA GTCTATGACTCCTGGAAGATACAGGCAGAACAGCAGAAAAACCTTTAATAAAACCCATA CATTCCCACTTTTGTGAGTTCAATATACCGAGAGTGCCCTGTGCCAAAGCCACGAGTTT GATCGTACCAGAAAAAGTTCTGTGATACAAGAGGAAAGGCAATGCCTGCCAGTAAGA AGAATGGAGAATCTCTCCAGAGCACCGAGAAAGAAAGNAAAGATCTGGGGATTGTTGCA AACTATTTTCGAGAAGTCCCGTAACCCCT
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_017615 unedited NNTTTTGCTTTGGACCGGCCGCATNCTAAGATCGAGTTTTTTTTTTTTTTTTTTGTG AAATGGCGGTGAGTTTCTTTAATCAAAGACAACCATGACAAATTTATTAATATCAAAA GCTACATTTTACTAAAAACAATCTGCCTTTAAAAATGTTGAATCATACAATATGTACAAT ACATGCCGCTTTCCGTTTTGGACTTCACTATCCATTTGAGTCTTCAGCTAGCATCAAGC ACTTGGCTTCTGCTGCCTCTGACTTGGAGTAATCACAGGCTCTGAAATCTCAAAGTCTT CACAATCTCTCCAGTCACGTAACCTCAAAGCTATAATTCTTGATTTCTAACTTGTGT GTTATGTTCAAATCCCTCATTTTCTTCAATACTAACAGGCTCTATTACTGGCAGCCG GTCTTGGTCAAGTCTTATTCTTGACAACCATCCCTATAATGAAGGAAACATGAAAGAC GTTCTCCCTGTCCGGCGGAAGAATGAGGATCCACCCACATAGCTAAAGAAGGACATTG CGGCCTCATGATCTTCCATAAAAAATTTCTTAATAAAACCCCACTCCCACTACTCTC CCTGCCGCCCTCGCGGAAATTTTGTGCTATCCCTCCCAACCGCTCCCACTCTCT CCCCCGTCCCAATCCCCCNTTTTTGTGCTATCCCTCCCCCTCTTCCCTACACTA AATTTTTCTATACGAACGACCCCTTCCCCCTTCATCCCCCTCGTTTTTTTACCTC TTTTCTTCCCGTCCCATCGTTCCCGACCCCAACCCCTCCCACTTCCCTCTTCCACCC CTCCCGCCCCAACATAGATCTCCCTCCCCACCCCTCCCTCTACCCACCCAC CGCCATTCACTCTCCCCC
Restriction Sites:	NotI-NotI
ACCN:	NM_017615
Insert Size:	1320 bp
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:

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_017615.1](#), [NP_060085.1](#)

RefSeq Size: 1387 bp

RefSeq ORF: 1158 bp

Locus ID: 54780

UniProt ID: [Q9NXX6](#)

Cytogenetics: 10q26.13

Gene Summary: Component of the SMC5-SMC6 complex, a complex involved in DNA double-strand breaks by homologous recombination. The complex may promote sister chromatid homologous recombination by recruiting the SMC1-SMC3 cohesin complex to double-strand breaks. The complex is required for telomere maintenance via recombination in ALT (alternative lengthening of telomeres) cell lines and mediates sumoylation of shelterin complex (telosome) components which is proposed to lead to shelterin complex disassembly in ALT-associated PML bodies (APBs). Is involved in positive regulation of response to DNA damage stimulus.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.