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Product datasheet for SC328608

NSMCE4A (NM_001167865) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NSMCE4A (NM_001167865) Human Untagged Clone
Tag:	Tag Free
Symbol:	NSMCE4A
Synonyms:	C10orf86; NS4EA; NSE4A
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001167865, the custom clone sequence may differ by one or more nucleotides ATGTCTGGGGACAGCAGCGGCCGCGGGCCAGAGGGCCGGGGCCGGGGCCGCGACCCGCAT CGGGATCGCACCCGCTCCCGCTCCCGCTCGCGGTCCCCTTTGTCGCCCAGGTCCCGCCGC GGCTCTGCGCGGGAGCGCAGAGAGGCCCCAGAGCGCCCGAGCCTGGAGGACACAGAGCCG TCGGATTCCGGGGACGAGATGATGGACCCGGCCAGCTTGGAGGCGGAGGCCGACCAAGGC CTGTGCCGCCAGATCCGCCATCAGTACCGGGCGCTCATCAACTCCGTCCAACAAAACCGT GAGGACATACTGAATGCCGGTGACAAATTAACAGAGGTCCTTGAAGAGGCTAACACTCTG TTTAATGAAGTGTCCCGAGCAAGAGAAGCAGTCCTGGATGCCCACTTTCTTGTTTTGGCT TCAGATTTGGGCAAAGAGAAAGCAAAGCAGCTGCGCTCAGACCTGAGCTCCTTTGACATG TTAAGATATGTTGAAACTCTACTCACACATATGGGTGTAAATCCGCTAGAAGCTGAAGAA CTCATCCGTGATGAAGATAGTCCTGATTTTGAATTCATAGTCTATGACTCCTGGAAGATA ACAGGCAGAACAGCAGAAAACACCTTTAATAAAACCCATACATTCCACTTTCTGTTGGGT TCAATATACGGAGAGTGCCCTGTGCCAAAGCCACGAGTTGATCGTCCAAGAAAAGTTCCT GTGATACAAGAGGAGAGGGCAATGCCTGCCCAGTTAAGAAGAATGGAAGAATCTCATCAA GAAGCAACAGAGAAAGAAGTAGAAAGAATCTTGGGATTGTTGCAGACATATTTTCGAGAA GATCCTGATACCCCAATGTCCTTCTTTGACTTTGTGGTTGATCCTCATTCTTTCCCCCGT ACAGTGGAAAACATCTTTCATGTTTCCTTCATTATACGGGATGGTTTTGCAAGAATAAGA CTTGACCAAGACCGACTGCCAGTAATAGAGCCTGTTAGTATTAATGAAGAAAATGAGGGA TTTGAACATAACACACAAGTTAGAAATCAAGGAATTATAGCTTTGAGTTACCGTGACTGG GAGATTGTGAAGACCTTTGAGATTTCAGAGCCTGTGATTACTCCAAGTCAGAGGCAGCAG AAGCCAAGTGCTTGA
Restriction Sites:	Please inquire
ACCN:	NM_001167865

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).
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_001167865.1, NP_001161337.1
RefSeq Size:	1417 bp
RefSeq ORF:	1155 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 (2) uses an alternate in-frame splice site in the coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to 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.