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Product datasheet for RC229970

NSMCE4A (NM_001167865) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NSMCE4A (NM_001167865) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NSMCE4A
Synonyms:	C10orf86; NS4EA; NSE4A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC229970 representing NM_001167865
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTGGGGACAGCAGCGGCCGCGGGCCAGAGGGCCGGGGCCGGGGCCGCGACCCGCATCGGGATCGCA
CCCGCTCCCGCTCCCGCTCGCGGTCCCCTTTGTCGCCCAGGTCCCGCCGCGGCTCTGCGCGGGAGCGCAG
AGAGGCCCCAGAGCGCCCGAGCCTGGAGGACACAGAGCCGTCGGATTCCGGGGACGAGATGATGGACCCG
GCCAGCTTGGAGGCGGAGGCCGACCAAGGCCTGTGCCGCCAGATCCGCCATCAGTACCGGGCGCTCATCA
ACTCCGTCCAACAAAACCGTGAGGACATACTGAATGCCGGTGACAAATTAACAGAGGTCCTTGAAGAGGC
TAACACTCTGTTTAATGAAGTGTCCCGAGCAAGAGAAGCAGTCCTGGATGCCCACTTTCTTGTTTTGGCT
TCAGATTTGGGCAAAGAGAAAGCAAAGCAGCTGCGCTCAGACCTGAGCTCCTTTGACATGTTAAGATATG
TTGAAACTCTACTCACACATATGGGTGTAAATCCGCTAGAAGCTGAAGAACTCATCCGTGATGAAGATAG
TCCTGATTTTGAATTCATAGTCTATGACTCCTGGAAGATAACAGGCAGAACAGCAGAAAACACCTTTAAT
AAAACCCATACATTCCACTTTCTGTTGGGTTCAATATACGGAGAGTGCCCTGTGCCAAAGCCACGAGTTG
ATCGTCCAAGAAAAGTTCCTGTGATACAAGAGGAGAGGGCAATGCCTGCCCAGTTAAGAAGAATGGAAGA
ATCTCATCAAGAAGCAACAGAGAAAGAAGTAGAAAGAATCTTGGGATTGTTGCAGACATATTTTCGAGAA
GATCCTGATACCCCAATGTCCTTCTTTGACTTTGTGGTTGATCCTCATTCTTTCCCCCGTACAGTGGAAA
ACATCTTTCATGTTTCCTTCATTATACGGGATGGTTTTGCAAGAATAAGACTTGACCAAGACCGACTGCC
AGTAATAGAGCCTGTTAGTATTAATGAAGAAAATGAGGGATTTGAACATAACACACAAGTTAGAAATCAA
GGAATTATAGCTTTGAGTTACCGTGACTGGGAGATTGTGAAGACCTTTGAGATTTCAGAGCCTGTGATTA
CTCCAAGTCAGAGGCAGCAGAAGCCAAGTGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

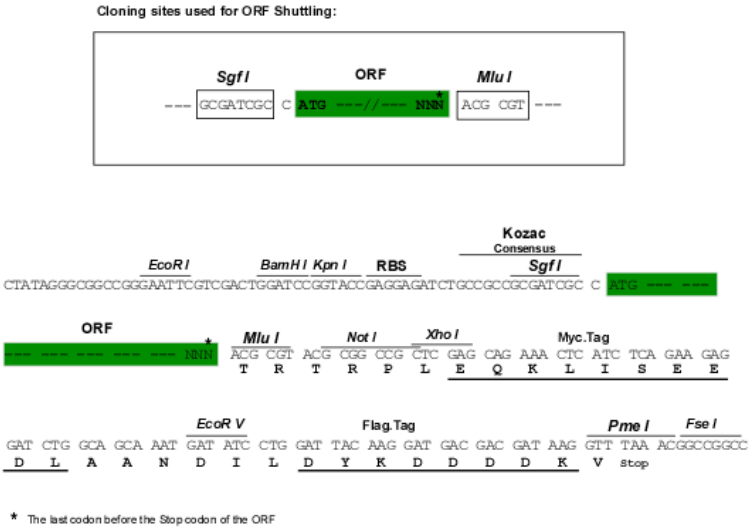
>RC229970 representing NM_001167865
Red=Cloning site Green=Tags(s)

MSGDSSGRGPEGRGRGRDPHRDRTRSRSRSRSPLSPRSRRGSARERREAPERPSLEDTEPSDSGDEMMDP
ASLEAEADQGLCRQIRHQYRALINSVQQNREDILNAGDKLTEVLEEANTLFNEVSRAREAVLDAHFLVLA
SDLGKEKAKQLRSDLSSFDMLRYVETLLTHMGVNPLEAEELIRDEDSPDFEFIVYDSWKITGRTAENTFN
KTHTFHFLLGSIYGECPVPKPRVDRPRKVPVIQEERAMPAQLRRMEESHQEATEKEVERILGLLQTYFRE
DPDTPMSFFDFVVDPHSFPRTVENIFHVSFIIRDGFARIRLDQDRLPVIEPVSINEENEGFEHNTQVRNQ
GIIALSYRDWEIVKTFEISEPVITPSQRQQKPSA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001167865

ORF Size: 1152 bp

OTI Disclaimer: 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

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_001167865.2

RefSeq ORF: 1155 bp

Locus ID: 54780

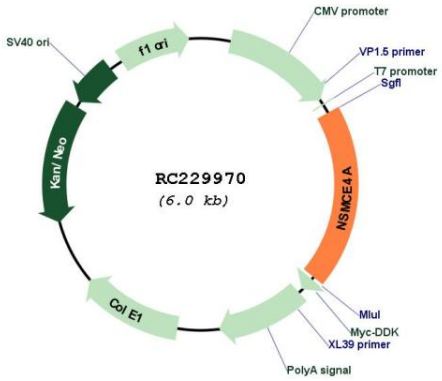
UniProt ID: Q9NXX6

Cytogenetics: 10q26.13

MW: 44.6 kDa

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]

Product images:



Circular map for RC229970