

Product datasheet for **SC105818**

NUP214 (AJ420413) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NUP214 (AJ420413) Human Untagged Clone
Tag:	Tag Free
Symbol:	NUP214
Synonyms:	CAIN; CAN
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for AJ420413, the custom clone sequence may differ by one or more nucleotides

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GGCACGAGGGCAGCAGCAACACCACATCCTTCGGCACGCTCGCGAGTCAGAATGCCCCACTTTTCGGATC
ACTGTCCCAACAGACTTCTGGTTTTGGGACCCAGAGTAGCGGATTCTCTGGTTTTGGATCAGGCACAGGA
GGGTTTCAGCTTTGGGTCAAATAACTCGTCTGTCCAGGGTTTTGGTGGCTGGCGAAGCTGAGGGCGTGTCA
GCAGGCCCTTCGATCCCTGGGACCAACCGCATCCTCAGCTTCTCCCGAGAAATGCTGGAGCAGGCTGT
TCAGACCGACGTTGCCATCAAAACACATACACCCAGAAAGAAACAACAGAAACAAAACACTACAAGGCGC
ATGATTACTTGTATTTATATTTTCATGTTGGGTTTTCCCTCCCACTATTAACAGTCTGTTTCCGTACAGAA
CGTATGTGGGTTTTTTCAGATCACAGCCAAGAAGATTGCCCGTTTCTGTGGCTCTGAGAAGCCAGCAGA
GCCTCCATCAGCCAGAACACTGTGTCTTCAAGGATGGCATCAGAAGTCACCAGCGTCGGGTGTTGATAAA
CAGCATCGAATGTGCCGTGGTCTCACTTGACCTAGCGCCCTCCCATAGGGAAGAGGTTGAATGCTGGT
GGGTCACTTTTTGAGGCTGAACTTGGTTATCTCCTCTCCTTGTCTTTTAGCCATTGTGTATCAGGAC
CATCCAAGGACGCACTCTGCGATTGAGTGGAGGCAGAGGAAGCCACTCATGCCAGCAGCAGTTGAGTTTC
AGAAGCAGCCATAGCGCTTTTCAGTACAGTACAATAGTAGCCAGCGTGAGGCAGGACAGTGTGCGCCTT
AGCCGGCCTTGGCTCTCATCTCCATGTGGCTCTTGGGTGCCATGTGTCTACTCCAGAGAGGAGGGGGCC
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ACAACACTAGCAGAACGATGCTGGATTTGACAACAGTGTGTTGCTAGGACGGCCAGAGCTCATCACTGCA
GTTTTATTAGAGTGCTTCTTTATCTTTAATGCAGTATCTTTGAGGCTGTAACATCCTAGATAGTTGCCA
TCAAACAAGGACCGTCTCGCATTGAAAACAGATGTAAGAATTTCTCTTTCAGGCCAGAATCTGACAGTG
CTTTGGCTTGGGTATGAGCAGCGGGGAGTTGGGAAGAGATTTTTTTTTTTAGAGTTTTACATATTGGCA
GGTTGTATTTTTTAATGTTTTAATAAAAGTTTGACATGACATTAATTCATCAAAAAAAAAAAAAAAAAA
AAAAAAAAAAACGAAG
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5' Read Nucleotide Sequence:

>OriGene 5' read for AJ420413 unedited
 ATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGTTTGGCAGCCC
 TCCTACTTTTGGGGGATCCCCTGGGTTTGGAGGGTGCCAGCATTTCGGTTCAGCCCCAGC
 CTTTACAAGCCCTCTGGGCTCGACGGGAGGCAAAGTGTTCGGAGAGGGCACTGCAGCTGC
 CAGCGCAGGAGGATTCGGGTTTGGGAGCAGCAGCAACACCACATCCTTCGGCACGCTCGC
 GAGTCAGAATGCCCCACTTTCGGATCACTGTCCCAACAGACTTCTGGTTTTGGGACCCA
 GAGTAGCGGATTCTCTGGTTTTGGATCAGGCACAGGAGGGTTCAGCTTTGGGTCAAATAA
 CTCGTCTGTCCAGGGTTTTGGTGGCTGGCGAAGCTGAGGGCGTGTGAGCAGGCCTTTCGA
 TCCTGGGACCAACCGCATCCTCAGCTTCTCCCGAGAAATGCTGGAGCAGGCTGTTCA
 GACCGACGTTGCCATCAAAACACATACACCCAGAAAGAAACAACAGAAACCAAACTCAC
 AAGGCGCATGATTACTTGTATTTATTTTCATGTTGGTTTTCCCTCCACTATTAACAG
 TCTGTTCCGTACAGAACGTATGTGGTTTTTTCAGATCACAGCCAAGAAGATTGCCCG
 TTTCTGTGGCTCTGAGAAGCCAGCAGAGCCTCCATCAGCCAGAACACTGTGTCTCAAGG
 ATGGCATCAGAAGTACCAGCGTCGGGGTGTGATAAACAGCATCGAATGGTCCCGTGGT
 CTCACTTGGACCTAGCGCCTCCATANGGAAAAGGNTGAATGCTGGTGGTTCATTTTT
 TGAGGCTGANACTGGNTATCTCCTCTCCTTGTCTTTTACCCATGGNGTATCAGACATC
 CAGGACGN

3' Read Nucleotide Sequence:

>OriGene 3' read for AJ420413 unedited
 GTAACAGCTATGNACCGCGGCACGCATCCTAGTATACGAGTTTTTTTTTTTTTTTTTTGA
 ATTAATGTCATGTCAAACTTTTATTAACATTAATAAATAACAACCTGCCAATATGTAAA
 ACTCTAAAAAAAAAAAAATCTTCCCAACTCCCGCTGCTCATGACCCAAGCCAAAGC
 ACTGTCAGATTCTGGGCCTGAAAGAGAAATTTACATCTGTTTTCAATGCGAGACGGTC
 CTTGTTTGTAGGCAACTATCTAGGATGTTACAGGCCTCAAAGATACTGCATTAAGATAA
 AGAAGCACTCTAATAAACTGCAGTGATGAGCTCTGGGCCCTAGCAAACACTGTTGT
 CAAATCCAGCATCGTTCTGCTAGTGTGTCTGGCAACAGCAGTGTCTGTCTTCACTTC
 CTGGGTCTACCAAGGGCTATCTGCACTGTGGTTAGTAGACACTGGGTAGGTGTGGCTAC
 CAATGTCACCTGCCACATACAGAATATAAAGGCTGTCTTCAAGTGACCGGCCCCCTCT
 CTCTGGAGTAGGACACATGGCACCAAGAGCCACATGGAGATGAGAGCCAAGGCCGGTA
 AGGCGCAGCACTGTCTGCCTCACGCTGGCTACTATTGTACTGTACTGAAAAGCGCTATG
 GCTGCTTCTGAAACTCACTGCTGCTGGCATGAGTGGTTCCTCTGCCTCCAATCAATCG
 CAGAGTGCCTTGGATGGTCTGATACCACATGGCTAANAGAACCAGGAGAGGAGATA
 ACCAAGTTTCAGCCTCAAAAAGATGACCCACCAGCATTCAACCTTTCCTATGTTGGAG
 GCGCTAGGTCCCAGTGAGACCACGGCACAATTCGATGCTGTTTATACCCCCGACGCG

Restriction Sites:

NotI-NotI

ACCN:

AJ420413

Insert Size:

1650 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: [AJ420413.1](#)

RefSeq Size: 1416 bp

RefSeq ORF: 1416 bp

Locus ID: 8021

Cytogenetics: 9q34.13

Gene Summary: The nuclear pore complex is a massive structure that extends across the nuclear envelope, forming a gateway that regulates the flow of macromolecules between the nucleus and the cytoplasm. Nucleoporins are the main components of the nuclear pore complex in eukaryotic cells. This gene is a member of the FG-repeat-containing nucleoporins. The protein encoded by this gene is localized to the cytoplasmic face of the nuclear pore complex where it is required for proper cell cycle progression and nucleocytoplasmic transport. The 3' portion of this gene forms a fusion gene with the DEK gene on chromosome 6 in a t(6,9) translocation associated with acute myeloid leukemia and myelodysplastic syndrome. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2015]