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# Product datasheet for SC309879

## NUP214 (NM_005085) Human Untagged Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | NUP214 (NM_005085) Human Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | NUP214 |
| **Synonyms:** | CAIN; CAN; IIAE9 |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pCMV6-XL5 |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

**Fully Sequenced ORF:**

>OriGene sequence for NM_005085 edited
GAGGAAGTTTGCTGTCGAGCGGCCTGGGTTCCGTGGGCAAGGCCGTGGGAGGCAGCGTTG
GCTGCTTCGACACACTGAGGGCGGCGCGATGGGAGACGAGATGGATGCCATGATTCCCGA
GCGGGAGATGAAGGATTTTCAGTTTAGAGCGCTAAAGAAGGTGAGAATCTTTGACTCCCC
TGAGGAATTGCCCAAGGAACGCTCGAGTCTGCTTGCTGTGTCCAACAAATATGGTCTGGT
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GGCTAAACAGCAAAAACGCCCATTTGCCTATCATAAGCTTTTGAAAGATGCAGGAGGCAT
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CACGGTAGCAGTAACCTCTGTGTGCTGGAGCCCCAAAGGAAAGCAGCTGGCAGTGGGAAA
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ATCGGCTACGGTCACTGGGGAGCCCCCTTCATATTCCAGTGGCTCCGACAGCTCCAAAGC
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CCCCACCCCTGCAGCGTCTCCTGTGGCTCCATCAGCTGCTTCATTCTCCTTTGGATCATC
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GTTCGGAGAGGGCACTGCAGCTGCCAGCGCAGGAGGATTCGGGTTTGGGAGCAGCAGCAA
CACCACATCCTTCGGCACGCTCGCGAGTCAGAATGCCCCCACTTTCGGATCACTGTCCCA
ACAGACTTCTGGTTTTGGGACCCAGAGTAGCGGATTCTCTGGTTTTGGATCAGGCACAGG
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AGGGCGTGTCAGCAGGCCTTTCGATCCCTGGGACCAACCGCATCCTCAGCTTCTTCCCCG
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GAAACAACAGAAACCAAAACTCACAAGGCGCATGATTACTTGTTTTATATTTCATGTTGG
GTTTTCCCTCCCACTATTAAACAGTCTGTTTCCGTAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM_005085

**Insert Size:** 6600 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).

**OTI Annotation:** The ORF of this clone has been fully sequenced and found to contain one SNP compared with NM_005085.2.

**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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_005085.2, NP_005076.3 |
| **RefSeq Size:** | 6614 bp |
| **RefSeq ORF:** | 6273 bp |
| **Locus ID:** | 8021 |
| **UniProt ID:** | P35658 |
| **Cytogenetics:** | 9q34.13 |
| **Domains:** | WD40, Nucleoporin_FG |
| **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]<br>Transcript Variant: This variant (2) represents the longest transcript and encodes the longest isoform (2). |