

Product datasheet for **SC205001**

RAN (NM_006325) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	RAN (NM_006325) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	RAN
Synonyms:	ARA24; Gsp1; TC4
ACCN:	NM_006325
Insert Size:	1782 bp



[View online »](#)

Insert Sequence: >SC205001 3'UTR clone of NM_006325
The sequence shown below is from the reference sequence of NM_006325. The complete sequence of this clone may contain minor differences, such as SNPs.
Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GCTCTCCCGGATGAGGATGATGACCTGTGAGAATGAAGCTGGAGCCAGCGTCAGAAGTCTAGTTTTAT
AGGCAGCTGTCTGTGATGTCAGCGGTGCAGCGTGTGCCACCTCATTATTATCTAGCTAAGCGGAAC
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AGACTGCTGCAGTCACATACAATATTCAGTGGTAAAATCTTGTTTGTACTGTCATTCCCATTCCCTTT
TCGTTTAGAATCAGAATAAAGTTGTATTTCAAATATCTAAGCAAGTGAACATCCCTTGTTTATAAAT
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AACTGATGATGACAGGTGAGCAGTATTCTATTTGGTTAGAAGGTTACATGGTGTAAAATATTAGTGCA
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CAAAATCTGTGACCTGTCAGAATAAAAAATGTGGTTGTACATATCAAATAGATATTTAAGGTAATAT
TTTCTTTTATGGCAAAAGTAATCATGTTTTAATGTAGAACCTCAAACAGGATGGAACATCAGTGGATGG
CAGGAGTTGGGAATCTTGCTGTTAAAAATAATTACAAATTTTGCACTTTTTTGTGTTGAATGTTAGAT
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TTTAAAGATGTCTGAACATTTAAGTTCTTCAGCAGTTCACACTACCCGTTTTTTTTTTTTTTTTTCC
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TAGAAAGGATCACTTAAATATATGGAAAAATGAAATAAGGGTGAAGCTGAATAAAGTTCTACTTACTGT
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TTTCTAACCCAGCTGTGAGATGGGAAGTTTTTCCCATAAATGGGATGAAACCTTTCATTAGGATTT
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TCTATGTAACAGTTGAAATTTGGAAGTGACGCTACCTACCTGTCTAACGTGGTGTGGGAGAGAATTTAC
AAGTCCTTTATTGAAAGAATAATTGTTGCAAAATATATTGCTTCTACTTTGCCTGGA
ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
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Restriction Sites: Sgfl-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_006325.5](#)

Summary:

RAN (ras-related nuclear protein) is a small GTP binding protein belonging to the RAS superfamily that is essential for the translocation of RNA and proteins through the nuclear pore complex. The RAN protein is also involved in control of DNA synthesis and cell cycle progression. Nuclear localization of RAN requires the presence of regulator of chromosome condensation 1 (RCC1). Mutations in RAN disrupt DNA synthesis. Because of its many functions, it is likely that RAN interacts with several other proteins. RAN regulates formation and organization of the microtubule network independently of its role in the nucleus-cytosol exchange of macromolecules. RAN could be a key signaling molecule regulating microtubule polymerization during mitosis. RCC1 generates a high local concentration of RAN-GTP around chromatin which, in turn, induces the local nucleation of microtubules. RAN is an androgen receptor (AR) coactivator that binds differentially with different lengths of polyglutamine within the androgen receptor. Polyglutamine repeat expansion in the AR is linked to Kennedy's disease (X-linked spinal and bulbar muscular atrophy). RAN coactivation of the AR diminishes with polyglutamine expansion within the AR, and this weak coactivation may lead to partial androgen insensitivity during the development of Kennedy's disease. [provided by RefSeq, Jul 2008]

Locus ID:

5901

MW:

69.2