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Product datasheet for RG216021

NEK8 (NM_178170) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NEK8 (NM_178170) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NEK8
Synonyms:	JCK; NEK12A; NPHP9; RHPD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG216021 representing NM_178170
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGAAGTACGAGCGGATCCGAGTGGTGGGGAGAGGTGCCTTCGGGATTGTGCACCTGTGCCTGCGAA
AGGCTGACCAGAAGCTGGTGATCATCAAGCAGATTCCAGTGGAACAGATGACCAAGGAAGAGCGGCAGGC
AGCCCAGAATGAGTGCCAGGTCCTCAAGCTGCTCAACCACCCCAATGTCATTGAGTACTACGAGAACTTC
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AGCGCTGTAATTCCCTGCTGGAGGAGGAGACCATCCTGCACTTCTTCGTGCAGATCCTGCTTGCACTGCA
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GGCCCTGGGCTGTGTCCTCTACGAGCTGGCCAGCCTCAAGAGGGCTTTCGAGGCTGCGAACTTGCCAGCA
CTGGTGCTGAAGATCATGAGTGGCACCTTTGCACCTATCTCTGACCGGTACAGCCCTGAGCTTCGCCAGC
TGGTCCTGAGTCTACTCAGCCTGGAGCCTGCCCAGCGGCCACCACTCAGCCACATCATGGCACAGCCCCT
CTGCATCCGTGCCCTCCTCAACCTCCACACCGACGTGGGCAGTGTCCGCATGCGGAGGGCAGAGAAGTCC
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GCCAATGCTCAACACAGAGGTGGTCCAGGTGGCAGCTGGGCGCACGCAGAAAGCCGGCGTCACGCGCTCT
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GAGCCTCTGCTGAGTATAGACCTGGGCACTGCTCACTCAGCTGCTGTGACTGCCTCGGGTGATTGCTACA
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CCAAGGCCTTGAGGGCATCAAGATGGCAATGGTAGCCTGTGGGGATGCCTTCACTGTAGCTATTGGGGCA
GAGAGCGAAGTGTACTCTTGGGGCAAAGGGGCGCGAGGTCGATTGGGAAGGAGGGATGAGGATGCCGGAC
TCCCTCGGCCAGTGCAGTTGGATGAGACACACCCTTACACGGTGACTTCCGTGTCCTGTTGCCATGGAAA
CACCCTCCTGGCTGTTCGATCGGTCACAGATGAGCCGGTCCCCCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

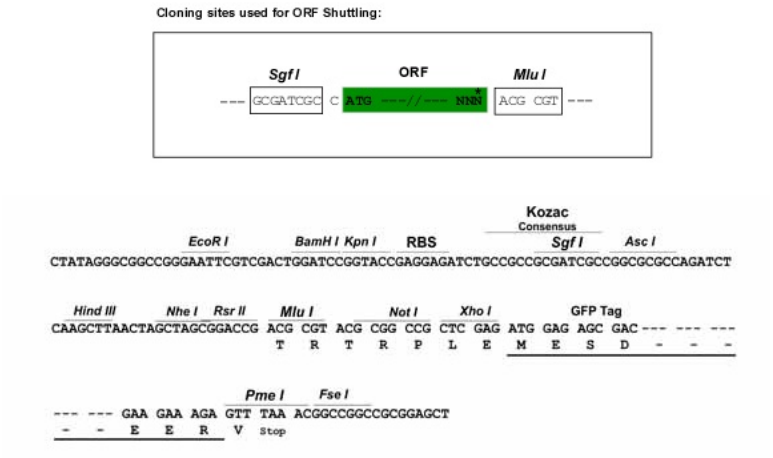
>RG216021 representing NM_178170
Red=Cloning site Green=Tags(s)

MEKYERIRVVGRGAFGIVHLCLRKADQKLVIIKQIPVEQMTKEERQAAQNECQVLKLLNHPNVIEYYENF
LEDKALMIAMEYAPGGTLAEFIQKRCNSLLEEETILHFFVQILLALHHVHTHLILHRDLKTQNILLDKHR
MVVKIGDFGISKILSSKSKAYTVVGTPCYISPELCEGKPYNQKSDIWALGCVLYELASLKRAFEAANLPA
LVLKIMSGTFAPISDRYSPELRQLVLSLLSLEPAQRPPLSHIMAQPLCIRALLNLHTDVGSVRMRRAEKS
VAPSNTGSRTTSVRCRGIPRGPVRPAIPPPLSSVYAWGGGLGTPLRLPMLNTEVVQVAAGRTQKAGVTRS
GRLILWEAPPLGAGGGSLLPGAVEQPQPQFISRFLEGQSGVTIKHVACGDFFTACLTDRGIIMTFGSGSN
GCLGHGSLTDISQPTIVEALLGYEMVQVACGASHVLALSTERELFAWGRGDSGRLGLGTRESHSCPQQVP
MPPGQEAQRVVCGIDSSMILTVPGQALACGSNRFNKLGLDHLSLGEEPVPHQQVEEALSFTLLGSAPLDQ
EPLLSIDLGTAHSAAVTASGDCYTFGSNQHGQLGTNTRRGSRAPCKVQGLEGIKMAMVACGDAFTVAIGA
ESEVYSWGKGARGRLGRRDEDAGLPRPVQLDETHPYTVTSVSCCHGNTLLAVRSVTDEPVPP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_178170

ORF Size: 2076 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.

RefSeq: NM_178170.3

RefSeq Size: 2858 bp

RefSeq ORF: 2079 bp

Locus ID: 284086

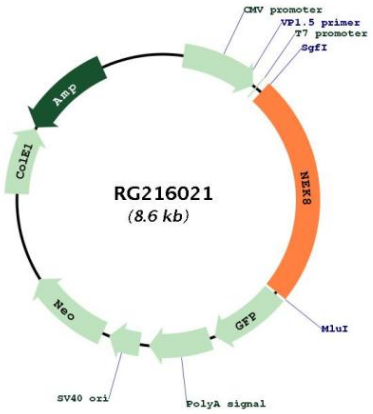
UniProt ID: Q86SG6

Cytogenetics: 17q11.2

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: This gene encodes a member of the serine/threionine protein kinase family related to NIMA (never in mitosis, gene A) of Aspergillus nidulans. The encoded protein may play a role in cell cycle progression from G2 to M phase. Mutations in the related mouse gene are associated with a disease phenotype that closely parallels the juvenile autosomal recessive form of polycystic kidney disease in humans. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG216021