

Product datasheet for RC213004

LRRC26 (NM_001013653) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LRRC26 (NM_001013653) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LRRC26
Synonyms:	bA350O14.10; CAPC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC213004 representing NM_001013653 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCGGGGCCCTTCTGGTCGCGGCCCTCGGCCGCTGCTGCTGCTGTTGCTGCTGCTGTCGCCTTGGCCTG
 TCTGGGCCAGGTGTCGGCCACGGCCTCGCCCTCGGGTCCCTGGGCGCCCCGACTGCCCGAGGTGTG
 CACGTGCGTGCCGGGAGGCTGGCCAGCTGCTCGGCACTCTCGCTGCCCGCGTGCCCCGGGCCTGAGC
 CTGCGCCTGCGCGCTGCTGCTGGACCACAACCGCTCCGTGCGCTGCCGCCAGGTGCCTTCGCGGGAG
 CGGGCGCGCTACAGCGCCTGGACCTGCGCGAGAACGGGCTGCACTCGGTGCATGTGCGAGCCTTCTGGGG
 CCTGGGCGCGCTGCACTGCTGGACCTGAGCGCAACAGCTGGAAGCACTGGCACCAGGGAATTCGCG
 CCGCTGCGCGCTGCGCAACCTCTCATTGGCCGCAACCGGCTGGCGCGCCTGGAGCCCGCGCGCTAG
 GCGCGCTCCCGCTGCTGCGCTCACTCAGCCTGCAGGACAACGAGCTGGCGGCACTCGCGCCGGGGCTGCT
 GGGCCGCTGCCCGCTCTAGACGCGCTGCACCTGCGCGGCAACCTTGGGGCTGCGGGTGCAGCTGCGC
 CCGCTCTGCGCCTGGCTGCGCGGCAACCGCTGCCCGCTCAGAGGCGGAGACGGTGTCTGCGTGTGGC
 CGGAGCGCTGACGCTCAGCCCCCTGACTGCCTTTCCGACGCGCGCTTAGCCATTGCGCGCAGCCGCT
 CGCCCTGCGGGACCTGGCCGTGGTTTACACGCTCGGGCCGGCCTCCTTCCTCGTCAGCCTGGCTTCTGCT
 CTGGCGCTGGGCTCTGGGCTACCGCCTGCCGTGCGCGCCGCGCGCCTCCGCACCGCGCCCTCCGCC
 CGCCGAGACCGCAGACCGCAACCCGATCCCGACCCCAAGGCTGTGCTCGCCCGGACCCGGGGAG
 CCCCAGCGCTGCGGCCAAGCC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC213004 representing NM_001013653
 Red=Cloning site Green=Tags(s)

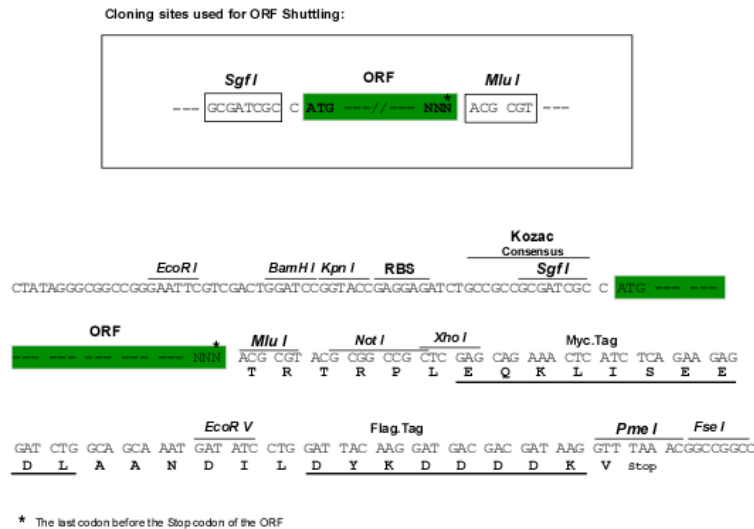
MRGPSWSRPRLLLLLLLLSPWPVWAQVSATASPSGSLGAPDCPEVCTCVPGGLASCSALSLPAVPPGLS
 LRLRALLLDHNRYRALPPGAFAGAGALQRLDLRENLHSHVHRAFWGLGALQLDL SANQLEALPGTFA
 PLRALRNL SLAGNRLARLEPAALGALPLLRSLSLQDNELAALAPGLLGRLPALDALHLRGNPWGCGCALR
 PLCAWLRRHPLPASEAETVLCVWPGRLLTSLPTAFSDAAF SHCAQPLALRDLAVVYTLGPASFLVSLASC
 LALGSGLTACRARRRRRLTAALRPPRPPDPNPDPDPHGCASPADPGSPAAAAQA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4551_a07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001013653

ORF Size: 1002 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_001013653.3](#)

RefSeq Size: 1209 bp

RefSeq ORF: 1005 bp

Locus ID: 389816

UniProt ID: [Q2I0M4](#)

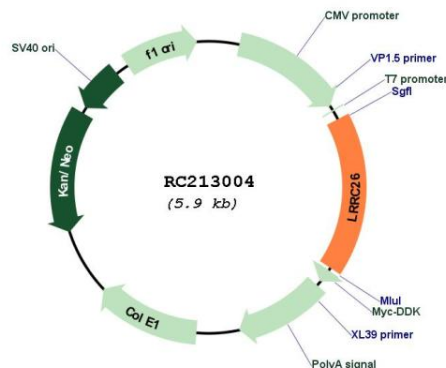
Cytogenetics: 9q34.3

Protein Families: Transmembrane

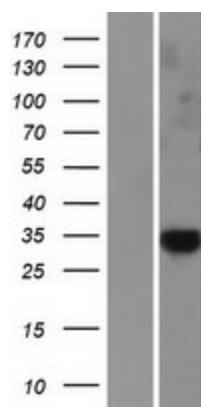
MW: 34.7 kDa

Gene Summary: Auxiliary protein of the large-conductance, voltage and calcium-activated potassium channel (BK alpha). Required for the conversion of BK alpha channels from a high-voltage to a low-voltage activated channel type in non-excitabile cells. These are characterized by negative membrane voltages and constant low levels of calcium.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC213004



Western blot validation of overexpression lysate (Cat# [LY423004]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213004 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).