

Product datasheet for RC229638

C19orf50 (KXD1) (NM_001171949) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	C19orf50
Synonyms:	BORCS4; C10orf50; C19orf50; KXDL; MST096; MSTP096
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC229638 representing NM_001171949
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACCTCCCGGACTCGGCCTCGAGGGTCTTCTGCGGCCGCATCCTGAGCATGGTGAACACAGATGATG
TCAACGCCATCATCTGGCCAGAAGAATGCTGGACCGCTTTGAGAAGACCAATGAGATGCTGCTCAA
CTTCAACAACCTGTCCAGTGCCCGCTGCAGCAGATGAGCGAACGCTTCTGCACCACAGGAGCCCTA
GTAGAGATGAAACGGGACCTGGACAGCATCTCCGCGTATCAGGACGCTGAAAGGGAACTGGCCAGGC
AGCACCAGAGGGCTTCAGCCATATCCAGAGGCATCCTTCTGGAGGAAGAGGATGAAGACCCCATCCC
ACCCAGCACCAGCACCATTGCCACCTCAGAACAGAGCACGGGCTCATGTGACACCAGCCCCGACACC
GTCTCGCCCTCCCTGAGCCCCGGCTTCGAGGACCTGTCCATGTCCAGGCTGGCTCCCAGCCATCAACG
GCCGCAGCCAGACAGATGACGAGGAGATGACGGCGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC229638 representing NM_001171949
Red=Cloning site Green=Tags(s)

MDLPDSASRVFCGRILSMVNTDDVNAIILAQKNMLDRFEKTNEMLLNFNNLSSARLQQMSERFLHHTRTL
VEMKRDLSIFRRIRTLKGLARQHPEAFSHIPEASFLEEDEDPIPPSTTTTATSEQSTGSCDTPDPT
VSPSLSPGFEDLSHVQAGSPAINGRSQTDDEEMTGE

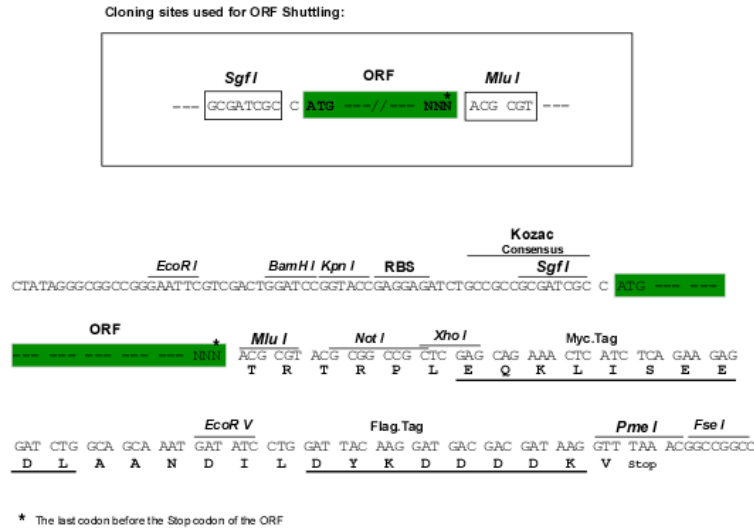
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1461_a10.zip



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001171949

ORF Size: 528 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_001171949.1](#), [NP_001165420.1](#)

RefSeq Size: 1496 bp

RefSeq ORF: 531 bp

Locus ID: 79036

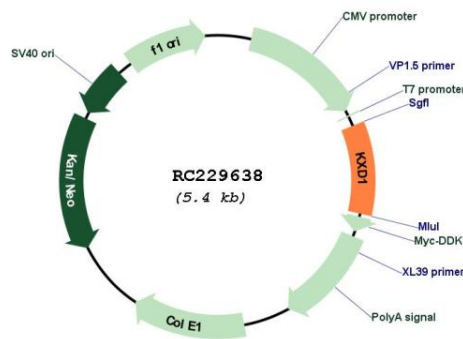
UniProt ID: [Q9BQD3](#)

Cytogenetics: 19p13.11

MW: 19.6 kDa

Gene Summary: As part of the BORC complex may play a role in lysosomes movement and localization at the cell periphery. Associated with the cytosolic face of lysosomes, the BORC complex may recruit ARL8B and couple lysosomes to microtubule plus-end-directed kinesin motor (PubMed:25898167). May be involved in the biogenesis of lysosome-related organelles such as melanosomes (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC229638