

Product datasheet for **RG229637**

C19orf50 (KXD1) (NM_001171948) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: C19orf50 (KXD1) (NM_001171948) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: KXD1
Synonyms: BORCS4; C10orf50; C19orf50; KXDL; MST096; MSTP096
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG229637 representing NM_001171948
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACCTCCCGACTCGGCCTCGAGGGTCTTCTGCGGCCGCATCCTGAGCATGGTGAACACAGATGATG
 TCAACGCCATCATCTGGCCCAGAAGAACATGCTGGACCGCTTTGAGAAGACCAATGAGATGCTGCTCAA
 CTTCAACAACCTGTCCAGTGCCCGCTGCAGCAGATGAGCGAACGCTTCTGCACCACACGAGGACCCTA
 GTAGAGATGAAACGGGACCTGGACAGCATCTCCGCCGTATCAGGACGCTGAAAGGGAACTGGCCAGGC
 AGCACCCAGAGGCCTTCAGCCATATCCCAGAGGCATCCTTCTGGAGGAAGAGGATGAAGACCCCATCCC
 ACCCAGCACCACGACCACCATTCACCTCAGAACAGAGCACGGGCTCATGTGACACCAGCCCCGACACC
 GTCTCGCCCTCCCTGAGCCCCGGCTTCGAGGACCTGTCCCATGTCCAGCCTGGCTCCCCAGCCATCAACG
 GCCGACCCAGACAGATGACGAGGAGATGACGGGGCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

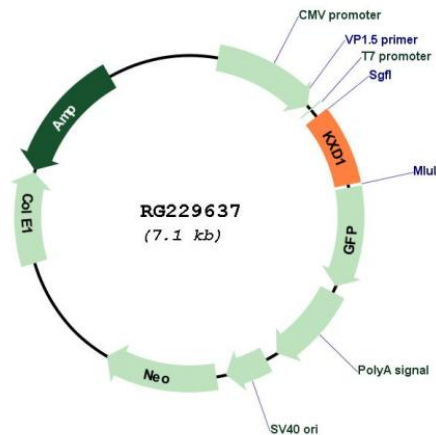
Protein Sequence: >RG229637 representing NM_001171948
 Red=Cloning site Green=Tags(s)
 MDLPDSASRVFCGRILSMVNTDDVNAIILAQKNMLDRFEKTNEMLLNFNNLSSARLQQMSERFLHHTRTL
 VEMKRDLDISIFRRIRTLKGLARQHPEAFSHIPEASFLLEEDEDPIPPSTTTTIIATSEQSTGSCDTPDPT
 VSPSLSPGFEDLSHVQPGSPAINGRSQTDDEEMTGE

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



Cloning Scheme:

Plasmid Map:


ACCN: NM_001171948

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:	<ol style="list-style-type: none">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:	<u>NM_001171948.1, NP_001165419.1</u>
RefSeq Size:	1592 bp
RefSeq ORF:	531 bp
Locus ID:	79036
UniProt ID:	<u>Q9BQD3</u>
Cytogenetics:	19p13.11
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]