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Product datasheet for RC225569

CCBL1 (KYAT1) (NM_001122672) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CCBL1 (KYAT1) (NM_001122672) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CCBL1
Synonyms:	CCBL1; GTK; KAT1; KATI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC225569 representing NM_001122672
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCAAACAGCTGCAGGCCCGAAGGCTAGACGGGATCGACTACAACCCCTGGGTGGAGTTTGTGAAAC
TGGCCAGTGAGCATGACGTCGTGAACTTGGGCCAGGGCTTCCCGGATTTCCCACCACCAGACTTTGCCGT
GGAAGCCTTTCAGCACGCTGTCAGTGGAGACTTCATGCTTAACCAGTACACCAAGACATTTGTCATCATC
ATCGAACCCTTTTTTGACTGCTACGAGCCCATGACAATGATGGCAGGGGGTCGTCCTGTGTTTGTGTCCC
TGAAGCCGGGTCCCATCCAGAATGGAGAACTGGGTTCCAGCAGCAACTGGCAGCTGGACCCCATGGAGCT
GGCCGGCAAATTCACATCACGCACCAAAGCCCTGGTCCTCAACACCCCCAACAACCCCCTGGGCAAGGTG
TTCTCCAGGGAAGAGCTGGAGCTGGTGGCCAGCCTTTGCCAGCAGCATGACGTGGTGTGTATCACTGATG
AAGTCTACCAGTGGATGGTCTACGACGGGCACCAGCACATCAGCATTGCCAGCCTCCCTGGCATGTGGGA
ACGGACCCTGACCATCGGCAGCGCCGGCAAGACCTTCAGCGCCACTGGCTGGAAGGTGGGCTGGGTCCTG
GGTCCAGATCACATCATGAAGCACCTGCGGACCGTGCACCAGAACTCCGTCTTCCACTGCCCCACGCAGA
GCCAGGCTGCAGTAGCCGAGAGCTTTGAACGGGAGCAGCTGCTCTTCCGCCAACCCAGCAGCTACTTTGT
GCAGTTCCCGCAGGCCATGCAGCGCTGCCGTGACCACATGATACGTAGCCTACAGTCAGTGGGCCTGAAG
CCCATCATCCCTCAGGGCAGCTACTTCCTCATCACAGACATCTCAGACTTCAAGAGGAAGATGCCTGACT
TGCCTGGAGCTGTGGATGAGCCCTATGACAGACGCTTCGTCAAGTGGATGATCAAGAACAAGGGCTTGGT
GGCCATCCCTGTCTCCATCTTCTATAGTGTGCCACATCAGAAGCACTTTGACCACTATATCCGCTTCTGT
TTTGTGAAGGATGAAGCCACGCTCCAGGCCATGGACGAGAAGCTGCGGAAGTGGAAGGTGGAACTCTGGC
CC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

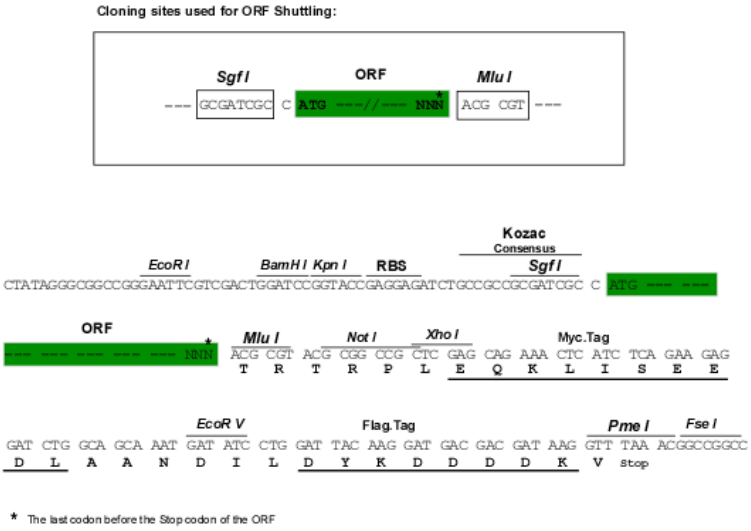
>RC225569 representing NM_001122672
Red=Cloning site Green=Tags(s)

MAKQLQARRLDGIDYNPWVEFVKLASEHDVVNLGQGFPDFPPPDFAVEAFQHAVSGDFMLNQYTKTFVII
IEPFFDCYEPMTMMAGGRPVFVSLKPGPIQNGELGSSSNWQLDPMELAGKFTSRTKALVLNTPNNPLGKV
FSREELELVASLCQQHDVVCITDEVYQWMVYDGHQHISIASLPGMWERTLTIGSAGKTFSATGWKVGWVL
GPDHIMKHLRTVHQNSVFHCPTQSQAAVAESFEREQLLFRQPSSYFVQFPQAMQRCRDHMIRSLQSVGLK
PIIPQGSYFLITDISDFKRKMPDLPGAVDEPYDRRFVKWMIKNKGLVAIPVSIFYSVPHQKHFDHYIRFC
FVKDEATLQAMDEKLRKWKVELWP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001122672

ORF Size: 1100 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_001122672.1, NP_001116144.1

RefSeq Size: 1792 bp

RefSeq ORF: 1119 bp

Locus ID: 883

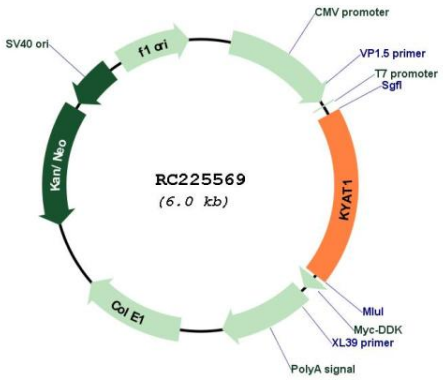
UniProt ID: Q16773

Cytogenetics: 9q34.11

MW: 42.8 kDa

Gene Summary: This gene encodes a cytosolic enzyme that is responsible for the metabolism of cysteine conjugates of certain halogenated alkenes and alkanes. This metabolism can form reactive metabolites leading to nephrotoxicity and neurotoxicity. Increased levels of this enzyme have been linked to schizophrenia. Multiple transcript variants that encode different isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC225569