

Product datasheet for SC318869

CCBL1 (KYAT1) (NM_001122671) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CCBL1 (KYAT1) (NM_001122671) Human Untagged Clone
Tag:	Tag Free
Symbol:	KYAT1
Synonyms:	CCBL1; GTK; KAT1; KATI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC318869 representing NM_001122671. Blue=Insert sequence Red=Cloning site Green=Tag(s)

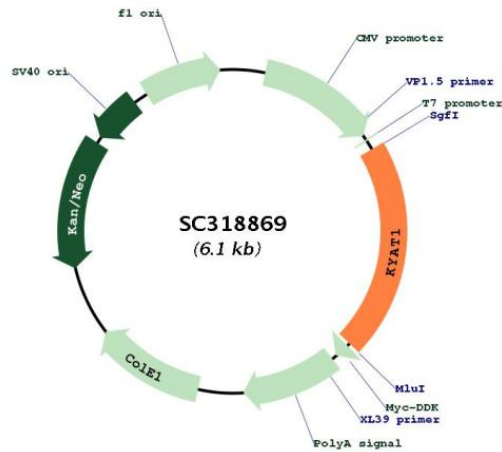
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GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGCCAAACAGCTGCAGGCCGAAGGCTAGACGGGATCGACTACAACCCTGGGTGGAGTTGTGAAA
CTGGCCAGTGAGCATGACGTCGTGAACCTGGGCCAGGGCTTCCCGGATTTCCACCACCAGACTTTGCC
GTGGAAGCCTTT CAGCACGCTGTCAGTGGAGACTTCATGCTTAACCAGTACACCAAGACATTTGTTAC
CCACCAGTACGAAGATCCTGGCAAGTTTCTTTGGGGAGCTGCTGGGT CAGGAGATAGACCCGCTCAGG
AATGTGCTGGTGACTGTTGGTGGCTATGGGGCCCTGTTACAGCCTTCCAGGCCCTGGTGGACGAAGGA
GACGAGGTCATCATCATCGAACCTTTTTGACTGCTACGAGCCATGACAATGATGGCAGGGGTCGT
CCTGTGTTTGTGCCCTGAAGCCGGTCCCATCCAGAATGGAGA ACTGGGTTCCAGCAGCAACTGGCAG
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GTCTTCCACTGCCCCACGAGCCAGGCTGCAGTAGCCGAGAGCTTTGAACGGGAGCAGCTGCTCTTC
CGCCAAACCAGCAGCTACTTTGTGCAGTTC CCGCAGGCCATGCAGCGCTGCCGTGACCACATGATACGT
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CACTTTGACCACTATATCCGTTCTGTTTTGTGAAGGATGAAGCCAGCTCCAGGCCATGGACGAGAAG
CTGCGGAAGTGAAGGTGGA ACTTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_001122671

Insert Size: 1269 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001122671.1](#)

RefSeq Size: 1936 bp

RefSeq ORF: 1269 bp

Locus ID: 883

UniProt ID: [Q16773](#)

Cytogenetics: 9q34.11

MW: 47.9 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]
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2, and 6-11 all encode the same isoform (a).