

## Product datasheet for **SC317684**

### CCBL1 (KYAT1) (NM\_004059) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CCBL1 (KYAT1) (NM_004059) 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:	>SC317684 representing NM_004059. Blue=Insert sequence Red=Cloning site Green=Tag(s)

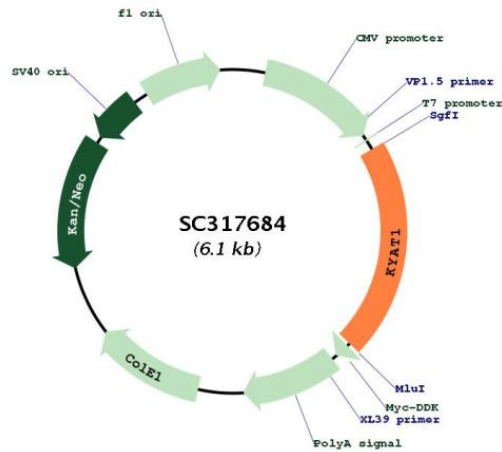
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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCAAACAGCTGCAGGCCGAAGGCTAGACGGGATCGACTACAACCCTGGGTGGAGTTGTGAAA
CTGGCCAGTGAGCATGACGTCGTGAACCTGGGCCAGGGCTTCCCGGATTTCCACCACCAGACTTTGCC
GTGGAAGCCTTTCAGCACGCTGTCAGTGGAGACTTCATGCTTAACCAGTACACCAAGACATTTGTTAC
CCACCAGTACGAAGATCCTGGCAAGTTTCTTTGGGGAGCTGCTGGGTGAGGATAGACCCGCTCAGG
AATGTGCTGGTGACTGTTGGTGGCTATGGGGCCCTGTTACAGCCTTCCAGGCCCTGGTGGACGAAGGA
GACGAGGTCATCATCGAACCTTTTTGACTGCTACGAGCCATGACAATGATGGCAGGGGTCGT
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CTGCGGAAGTGAAGGTGGAAGTCTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM\_004059

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\\_004059.4](#)

RefSeq Size: 1925 bp

RefSeq ORF: 1269 bp

Locus ID: 883

UniProt ID: [Q16773](#)

Cytogenetics: 9q34.11

Domains: aminotran\_1\_2

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 (1) encodes the isoform a. Variants 1, 2, and 6-11 all encode the same isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The extent of this transcript is supported by transcript alignments.