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Product datasheet for SC117604

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:	CCBL1
Synonyms:	CCBL1; GTK; KAT1; KATI
Mammalian Cell Selection:	None
Vector:	pCMV6-XL6
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC117604 sequence for NM_004059 edited (data generated by NextGen Sequencing)

ATGGCCAAACAGCTGCAGGCCCGAAGGCTAGACGGGATCGACTACAACCCCTGGGTGGAG
TTTGTGAAACTGGCCAGTGAGCATGACGTCGTGAACTTGGGCCAGGGCTTCCCGGATTTC
CCACCACCAGACTTTGCCGTGGAAGCCTTTCAGCACGCTGTCAGTGGAGACTTCATGCTT
AACCAGTACACCAAGACATTTGGTTACCCACCACTGACGAAGATCCTGGCAAGTTTCTTT
GGGGAGCTGCTGGGTCAGGAGATAGACCCGCTCAGGAATGTGCTGGTGACTGTTGGTGGC
TATGGGGCCCTGTTCACAGCCTTCCAGGCCCTGGTGGACGAAGGAGACGAGGTCATCATC
ATCGAACCCTTTTTTGACTGCTACGAGCCCATGACAATGATGGCAGGGGGTCGTCCTGTG
TTTGTGTCCCTGAAGCCGGGTCCCATCCAGAATGGAGAACTGGGTTCCAGCAGCAACTGG
CAGCTGGACCCCATGGAGCTGGCCGGCAAATTCACATCACGCACCAAAGCCCTGGTCCTC
AACACCCCCAACAACCCCCTGGGCAAGGTGTTCTCCAGGGAAGAGCTGGAGCTGGTGGCC
AGCCTTTGCCAGCAGCATGACGTGGTGTGTATCACTGATGAAGTCTACCAGTGGATGGTC
TACGACGGGCACCAGCACATCAGCATTGCCAGCCTCCCTGGCATGTGGGAACGGACCCTG
ACCATCGGCAGCGCCGGCAAGACCTTCAGCGCCACTGGCTGGAAGGTGGGCTGGGTCCTG
GGTCCAGATCACATCATGAAGCACCTGCGGACCGTGCACCAGAACTCCGTCTTCCACTGC
CCCACGCAGAGCCAGGCTGCAGTAGCCGAGAGCTTTGAACGGGAGCAGCTGCTCTTCCGC
CAACCCAGCAGCTACTTTGTGCAGTTCCCGCAGGCCATGCAGCGCTGCCGTGACCACATG
ATACGTAGCCTACAGTCAGTGGGCCTGAAGCCCATCATCCCTCAGGGCAGCTACTTCCTC
ATCACAGACATCTCAGACTTCAAGAGGAAGATGCCTGACTTGCCTGGAGCTGTGGATGAG
CCCTATGACAGACGCTTCGTCAAGTGGATGATCAAGAACAAGGGCTTGGTGGCCATCCCT
GTCTCCATCTTCTATAGTGTGCCACATCAGAAGCACTTTGACCACTATATCCGCTTCTGT
TTTGTGAAGGATGAAGCCACGCTCCAGGCCATGGACGAGAAGCTGCGGAAGTGGAAGGTG
GAACTCTAG

Clone variation with respect to NM_004059.4

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004059 unedited
TTACCCCCGCCCCGTTGNCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAG
CAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTTCTTTTTGCAGCGGCCGC
GAATTCGGCACGAGGTGGGAACGAGGGGTGAAGCGGCCCAGGTGAGGCTCGCCATGGCCA
AACAGCTGCAGGCCCGAAGGCTAGACGGGATCGACTACAACCCCTGGGTGGAGTTTGTGA
AACTGGCCAGTGAGCATGACGTCGTGAACTTGGGCCAGGGCTTCCCGGATTTCCCACCAC
CAGACTTTGCCGTGGAAGCCTTTCAGCACGCTGTCAGTGGAGACTTCATGCTTAACCAGT
ACACCAAGACATTTGGTTACCCACCACTGACGAAGATCCTGGCAAGTTTCTTTGGGGAGC
TGCTGGGTCAGGAGATAGACCCGCTCAGGAATGTGCTGGTGACTGTTGGTGGCTATGGGG
CCCTGTTCACAGCCTTCCAGGCCCTGGTGGACGAAGGAGACGAGGTCATCATCATCGAAC
CCTTTTTTGACTGCTACGAGCCCATGACAATGATGGCAGGGGGTCGTCCTGTGTTTGTGT
CCCTGAAGCCGGGTCCCATCCAGAATGGAGAACTGGGTTCCAGCAGCAACTGGCAGCTGG
ACCCCATGGNAGCTGCCGGCANATTCACATCACGCACCANAGCCCTGGTCCTCAACACCC
CCAACAACCCCCTGGGCAAGGGTGNTCTCCAGGNAAAGAGCTGAGCTGGTGGCCAGCCTT
TGCCAGCAGCATGACGTGGTGTGTATCACTGATGAAGTCTACCAGTGGATGGTCTACGAC
GGGCACAGCACATCAGCATTGCCAGCCTNCCTGGCATGTTGGAAACGGACCCTGACCCAT
CGNAGNNGCNGGCAGAACTTCAGCGCCACTGGGCTGAAAGTGGGGCTGGNTCCCTGGGTC
CAGAAACATNATGAAGCACA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004059 unedited
NCGGAAATACTATGNTACCGCGGCCGCAATTCTANATCGAGTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTGGTAAGGATCTTAATAACTTAAACATTTTATTATGG
ACCAAAAGGAAAGGCTTGAGGACTCAAGCCTAAAGGCAACTCCCCAAGGCCAAAATGAAC
CAGGGAAGGGGAGGTTATACCTGAACCTTAACAGGGGCCATGCATAACTGGGATGTGATC
GGTACATGGGGGAAGTCTACCGTCCGTCTTAACCAAACCTGGAGAGACCAGAAGCAACAC
AAGACCCTTCAAACCCACCTATGGAGGGGCAAGGAGAGGCCCAAGTCAAGCCACCCTCAC
CTTTTAAACAGGAGGCACTTGGTTCTCTAAAAAGAAAAAAGGGGGGTCCCACCCAAAACA
TTTTGTGTCACGGAAAAAAAGGTTCCCAATAACATCTTCCCCAACCTAAAAATGTCTGAA
ACCTGGACAAAAACAGACACTCCAAGAGGATCTCTGCGGGCATGTGGGGATGTCAAGGGC
CAAGCGTGACTTTAGGGGTAGAGTTTCACCTTCCACTTTCGCAACTTTTTGTCCATGGGC
CGGAACGTGGCTTTATTCTTTACAAAACAAAAACCGATATAGTGGGCAAAATGCTTCTGA
TGTGGCGCACTATATAAAAAGGGGACACGGGTGGGCACCAAACGCCTGGTTCTTGATCAT
CCCCTTTACCAAACCTCTGTCATAAGGGTTATTCACAGGTTCCGGGAAGTTAGGGAATTT
TCTCTTTAAAACTTAAAAGTCTGTGGAGAAGAAAAAACTGCCCCCGAGGAAGAATGGGCT
TTCAAGCCCACTGCCTGGGGGCTACCTTTCATATTGTCCCCGGAACCCTTCTTGGCTT

Restriction Sites: NotI-NotI

ACCN: NM_004059

Insert Size: 2000 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).

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_004059.3, NP_004050.2
RefSeq Size:	2152 bp
RefSeq ORF:	753 bp
Locus ID:	883
UniProt ID:	Q16773
Cytogenetics:	9q34.11
Domains:	aminotran_1_2
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.