

Product datasheet for **RG225677**

CCBL1 (KYAT1) (NM_001122671) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CCBL1 (KYAT1) (NM_001122671) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: KYAT1
Synonyms: CCBL1; GTK; KAT1; KATI
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG225677 representing NM_001122671
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCAAACAGCTGCAGGCCGAAGGCTAGACGGGATCGACTACAACCCCTGGGTGGAGTTTGTGAAAC
 TGGCCAGTGAGCATGACGTCGTGAACCTGGGCCAGGGCTTCCCGATTCCACCACCAGACTTTGCCGT
 GGAAGCCTTTAGCAGCGTGTGAGTGGAGACTTACGCTTAACAGTACACCAAGACATTTGGTTACCCA
 CCACTGACGAAGATCCTGGCAAGTTCTTTGGGAGCTGCTGGGTCAGGAGATAGACCCGCTCAGGAATG
 TGCTGGTACTGTTGGTGGCTATGGGGCCCTGTTACAGCCTTCCAGGCCCTGGTGGACGAAGGAGACGA
 GGTATCATCATCGAACCTTTTTGACTGCTACGAGCCATGACAATGATGGCAGGGGGTCTGCTCTGTG
 TTTGTGTCCCTGAAGCCGGGTCCCATCCAGAATGGAGAATGGGTTCCAGCAGCAACTGGCAGCTGGACC
 CCATGGAGCTGGCCGGCAAATTCACATCACGCACCAAAGCCCTGGTCTCAACACCCCAACAACCCCT
 GGGCAAGGTGTTCTCCAGGGAAGAGCTGGAGCTGGTGGCCAGCCTTTGCCAGCAGCATGACGTGGTGTG
 ATCACTGATGAAGTCTACCAGTGGATGGTCTACGACGGGCACCAGCACATCAGCATTGCCAGCCTCCCTG
 GCATGTGGGAACGGACCTGACCATCGGCAGCGCCGGCAAGACCTTCAGCGCCACTGGCTGGAAGGTGGG
 CTGGGTCTGGTCCAGATCACATCATGAAGCACCTGCGGACCGTGCACCAGAAGTCCGCTTCCACTGC
 CCCACGAGAGCCAGGCTGCAGTAGCCGAGAGCTTTGAACGGGAGCAGCTGCTCTCCGCCAACCCAGCA
 GCTACTTTGTGCAGTTCCCGCAGGCCATGCAGCGCTGCCGTGACCACATGATACGTAGCCTACAGTCAGT
 GGGCCTGAAGCCATCATCCCTCAGGGCAGCTACTTCTCATCACAGACATCTCAGACTTCAAGAGGAAG
 ATGCCTGACTTGCTGGAGCTGTGGATGAGCCCTATGACAGACGCTTCGTCAGTGGATGATCAAGAACA
 AGGGCTTGGTGGCCATCCCTGTCTCCATCTTCTATAGTGTGCCACATCAGAAGCACTTTGACCACTATAT
 CCGCTTCTGTTTGTGAAGGATGAAGCCAGCTCCAGGCCATGGACGAGAAGCTGCGGAAGTGAAGGTG
 GAATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225677 representing NM_001122671
 Red=Cloning site Green=Tags(s)

MAKQLQARRLDGIDYNPWVEFVKLASEHDVVNLGQGFPDFPPDFAVEAFQHAVSGDFMLNQYTKTFGYP
 PLTKILASFFGELLGQEIDPLRNVLVTVGGYGALFTAFQALVDEGDEVIIEPFDCYEPMTMAGGRP
 FVSLKPGPIQNGELGSSSNWQLDPMELAGKFTSRTKALVLNTPNPLGKVF SREELELVASL CQQHDVVC
 ITDEVYQWMVYDGHQHISIASLPGMWERTLTIGSAGKTF SATGWKVGWVLGPDHIMKHLRTVHQNSVFHC
 PTQSQAAVAESFEREQLLFRQPSYFVQFPQAMQRCRDHMIRSLQSVGLKPIIPQGSYFLITDISDFKRK
 MPDLPGA VDEPYDRRFVKWMIKNKGLVAIPVSIFYSVPHQKHFHDYIRFCV KDEATLQAMDEKLRKWKV
 EL

TRTRPLE - GFP Tag - V

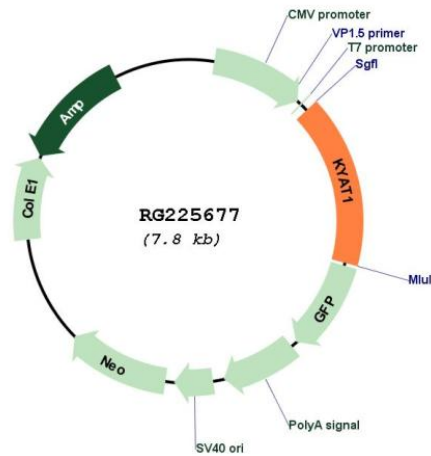
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001122671

ORF Size:	1266 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:	NM_001122671.1 , NP_001116143.1
RefSeq Size:	1936 bp
RefSeq ORF:	1269 bp
Locus ID:	883
UniProt ID:	Q16773
Cytogenetics:	9q34.11
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]