

Product datasheet for **RG225569**

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:	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:	>RG225569 representing NM_001122672 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAAACAGCTGCAGGCCCGAAGGCTAGACGGGATCGACTACAACCCCTGGGTGGAGTTTGTGAAAC
TGGCCAGTGAGCATGACGTCGTGAACCTGGGCCAGGGCTTCCCGATTCCACCACCAGACTTTGCCGT
GGAAGCCTTTGAGCAGCTGTCAGTGGAGACTTCATGCTTAACCAAGACATTTGTCATCATC
ATCGAACCTTTTTGACTGCTACGAGCCCATGACAATGATGGCAGGGGGTCGTCCTGTGTTTGTGTCCC
TGAAGCCGGTCCCATCCAGAATGGAGAACTGGGTTCCAGCAGCAACTGGCAGCTGGACCCATGGAGCT
GGCCGGCAAATTCACATCACGCACCAAAGCCCTGGTCCTCAACACCCCAACAACCCCTGGGCAAGGTG
TTCTCCAGGGAAGAGCTGGAGCTGGTGGCCAGCCTTTGCCAGCAGCATGACGTGGTGTGTATCACTGATG
AAGTCTACCAGTGGATGGTCTACGACGGGCACCAGCACATCAGCATTGCCAGCCTCCCTGGCATGTGGGA
ACGGACCTGACCATCGGCAGCGCCGGCAAGACCTTCAGCGCCACTGGCTGGAAGGTGGGCTGGGTCCTG
GGTCCAGATCACATCATGAAGCACCTGCGGACCGTGCACCAGAACTCCGTCTTCCACTGCCCCACGCAGA
GCCAGGCTGCAGTAGCCGAGAGCTTTGAACGGGAGCAGCTGCTCTCCGCCAACCCAGCAGCTACTTTGT
GCAGTTCCCGCAGGCCATGCAGCGCTGCCGTGACCACATGATACGTAGCCTACAGTCAGTGGGCTGAAG
CCCATCATCCCTCAGGGCAGCTACTTCTCATCACAGACATCTCAGACTTCAAGAGGAAGATGCCTGACT
TGCTTGAGCTGTGGATGAGCCCTATGACAGACGCTTCGTCAGTGGATGATCAAGAACAAGGGCTTGGT
GGCCATCCCTGTCTCCATCTTCTATAGTGTGCCACATCAGAAGCACTTTGACCACTATATCCGCTTCTGT
TTTGTGAAGGATGAAGCCACGCTCCAGGCCATGGACGAGAAGCTGCGGAAGTGAAGGTGGAAGTCTGGC
CC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225569 representing NM_001122672
 Red=Cloning site Green=Tags(s)

MAKQLQARRLDGIDYNPWVEFVKLASEHDVVNLGQGFDPDFPPDFAVEAFQHAVSGDFMLNQYTKTFVII
 IEPFFDCYEPMTMMAGGRPVFVSLKPGPIQNGELGSSSNWQLDPMELAGKFTSRTKALVLNTPNNPLGKV
 FSREELELVASLCQQHDVVCITDEVYQWMVYDGHQHISIASLPGMWERTLTIGSAGKTF SATGWKVGWVL
 GPDHIMKHLRTHVQNSVFHCPTQSQA AVAESFEREQLLFRQPSSYFVQFPQAMQRCRDHMIRSLQSVGLK
 PIIPQGSYFLITDISDFKRKMPDLP GAVDEPYDRRFVKWMIKKNGLVAIPVSI FYSPHQKHFDHYIRFC
 FVKDEATLQAMDEKLRKWKVELWP

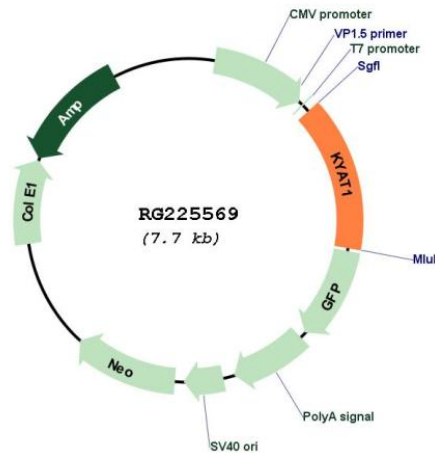
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001122672

ORF Size:	1125 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_001122672.1 , NP_001116144.1
RefSeq Size:	1792 bp
RefSeq ORF:	1119 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]