

## Product datasheet for **RG217351**

### CCBL2 (KYAT3) (NM\_001008662) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CCBL2 (KYAT3) (NM_001008662) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KYAT3
Synonyms:	CCBL2; KAT3; KATIII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG217351 representing NM_001008662 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCACTGAAATTCACAAATGCAAAACGGATTGAAGGACTTGATAGTAATGTGTGGATTGAATTTACCA  
AATTGGCTGCAGACCTTCTGTTGTGAATCTTGGCCAAGGCTTCCAGATATATCCCCTCTACATATGT  
AAAAGAAGATTATCAAAGATTGCAGCAATCGATAGCCTGAATCAGTATACACGAGGCTTTGGCCATCCA  
TCACTTGTGAAAGCTCTGTCCTATCTGTATGAAAAGCTTTATCAAAGCAAATTGATTCAAATAAGAAA  
TCCTTGTGACAGTAGGAGCATATGGATCTCTTTTTAACACCATTCAAGCATTAAATTGATGAGGGAGATGA  
AGTCATACTAATAGTGCCTTTCTATGACTGCTATGAGCCCATGGTGAGAAATGGCTGGAGCAACACCTGTT  
TTTATTTCCCCTGAGATCTAAACCTGTTTATGAAAAAGATGGTCTAGTTCTGACTGGACATTAGATCCCTC  
AAGAACTGGAAAGTAAATTTAATTCAAAAACCAAGCTATTATACTAAATACTCCACATAACCCACTTGG  
CAAGGTGTATAACAGAGAGGAAGTCAAGTAATTGCTGACCTTTGCATCAAATATGACACACTCTGCATC  
AGCGATGAGGTTTATGAATGGCTTGATATTCTGGAAATAAGCACTTAAAAATAGCTACTTTTCCAGGTA  
TGTGGGAGAGAACAATAACAATAGGAAGTGTGGAAAGACTTTTCAGTGAACTGGCTGGAAGCTTGGCTG  
GTCCATTTGTCACAAATCATTGATAAAACATTTACAGACAGTTCAACAAAACACGATTTATACTTGTGCA  
ACTCCTTTACAGGAAGCCTTGGCTCAAGCTTTCTGGATTGACATCAAGCGCATGGATGACCCAGAATGTT  
ACTTTAATCTTTGCCAAAAGAGTTAGAAGTAAAAAGAGATCGGATGGTACGTTTACTTGAAGTGTGG  
CCTAAAACCCATAGTTCCTGATGGAGGATACTTCATCATCGCTGATGTGTCTTTGCTAGATCCAGACCTC  
TCTGATATGAAGAATAATGAGCCTTATGACTATAAGTTTGTGAAATGGATGACTAAACATAAGAACTAT  
CAGCCATCCCCGTTTCAGCATTCTGTAAGTCAAGACTAAATCACAGTTTGAAGAAGTTTGTGCGTTTTTG  
CTTCATTAATAAAGACAGCACACTGGATGCTGCTGAAGAAATCATCAAGGCATGGAGTGTACAGAAGTCT

**ACGGTACGGCGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG217351 representing NM\_001008662  
 Red=Cloning site Green=Tags(s)

MSLKFTNAKRIEGLDSNVWIEFTKLAADPSVVNLGQGFPDISPPTYVKEELSKIAAIDSLNQYTRFGHP  
 SLVKALSYLEKLYQKQIDSNKEILVTVGAYGSLFNTIQALIDEGDEVILIVPFYDCYEPVMRMAGATPV  
 FIPLRSKPVYGKRWSSSDWTLDPQELESKFNSKTKAIIILNTPHNPLGKVYNREELQVIADLCIKYDTLCCI  
 SDEVYEWLVYSGNKHLKIATFPGMWERTITIGSAGKTF SVTGWKLGWSIGPNHLIKHLQTVQQNTIYTCA  
 TPLQEALAQAFWIDIKRMDDEPCYFNSLPKELEVKRDRMVRLLESVGLKPIVPDGGYFIIADVSLLDPLD  
 SDMKNNEPYDYKFKVWMTKHKKLSAIPVSAFCNSETKSQFEKVRFCFIKKDSTLDAEEI IKAWSVQKS

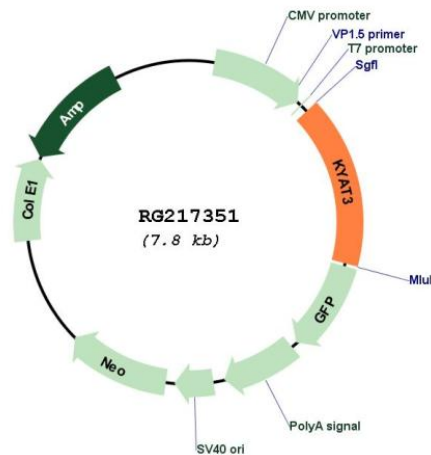
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001008662

<b>ORF Size:</b>	1260 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001008662.2</a> , <a href="#">NP_001008662.1</a>
<b>RefSeq Size:</b>	1938 bp
<b>RefSeq ORF:</b>	1263 bp
<b>Locus ID:</b>	56267
<b>UniProt ID:</b>	<a href="#">Q6YP21</a>
<b>Cytogenetics:</b>	1p22.2
<b>Gene Summary:</b>	This gene encodes an aminotransferase that transaminates kynurenine to form kynurenic acid, which is a metabolite of tryptophan. Multiple alternatively spliced transcript variants that encode different proteins have been described for this gene. This gene shares 5' exon structure with the RNA binding motif protein, X-linked-like 1 locus on chromosome 1, but the coding sequences are non-overlapping. [provided by RefSeq, Mar 2017]