OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC217351

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:	Myc-DDK
Symbol:	CCBL2
Synonyms:	CCBL2; KAT3; KATIII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

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>RC217351 representing NM_001008662
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCACTGAAATTCACAAATGCAAAACGGATTGAAGGACTTGATAGTAATGTGTGGATTGAATTTACCA
AATTGGCTGCAGACCCTTCTGTTGTGAATCTTGGCCAAGGCTTTCCAGATATATCCCCTCCTACATATGT
AAAAGAAGAATTATCAAAGATTGCAGCAATCGATAGCCTGAATCAGTATACACGAGGCTTTGGCCATCCA
TCACTTGTGAAAGCTCTGTCCTATCTGTATGAAAAGCTTTATCAAAAGCAAATTGATTCAAATAAAGAAA
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TTTATTCCCCTGAGATCTAAACCTGTTTATGGAAAAAGATGGTCTAGTTCTGACTGGACATTAGATCCTC
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CAAGGTGTATAACAGAGAGGAACTGCAAGTAATTGCTGACCTTTGCATCAAATATGACACACTCTGCATC
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GTCCATTGGTCCAAATCATTTGATAAAACATTTACAGACAGTTCAACAAAACACGATTTATACTTGTGCA
ACTCCTTTACAGGAAGCCTTGGCTCAAGCTTTCTGGATTGACATCAAGCGCATGGATGACCCAGAATGTT
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CCTAAAACCCATAGTTCCTGATGGAGGATACTTCATCATCGCTGATGTGTCTTTGCTAGATCCAGACCTC
TCTGATATGAAGAATAATGAGCCTTATGACTATAAGTTTGTGAAATGGATGACTAAACATAAGAAACTAT
CAGCCATCCCCGTTTCAGCATTCTGTAACTCAGAGACTAAATCACAGTTTGAGAAGTTTGTGCGTTTTTG
CTTCATTAAAAAAGACAGCACACTGGATGCTGCTGAAGAAATCATCAAGGCATGGAGTGTACAGAAGTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Protein Sequence:

>RC217351 representing NM_001008662
Red=Cloning site Green=Tags(s)

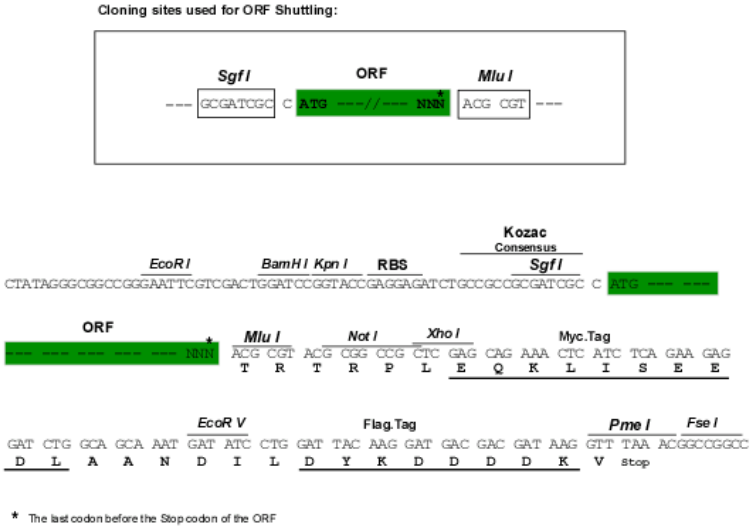
MSLKFTNAKRIEGLDSNVWIEFTKLAADPSVVNLGQGFPDISPPTYVKEELSKIAAIDSLNQYTRGFGHP
SLVKALSYLYEKLYQKQIDSNKEILVTVGAYGSLFNTIQALIDEGDEVILIVPFYDCYEPMVRMAGATPV
FIPLRSKPVYGKRWSSSDWTLDPQELESKFNSKTKAIILNTPHNPLGKVYNREELQVIADLCIKYDTLCI
SDEVYEWLVYSGNKHLKIATFPGMWERTITIGSAGKTFSVTGWKLGWSIGPNHLIKHLQTVQQNTIYTCA
TPLQEALAQAFWIDIKRMDDPECYFNSLPKELEVKRDRMVRLLESVGLKPIVPDGGYFIIADVSLLDPDL
SDMKNNEPYDYKFVKWMTKHKKLSAIPVSAFCNSETKSQFEKFVRFCFIKKDSTLDAAEEIIKAWSVQKS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1307_b08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001008662

ORF Size: 1260 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).

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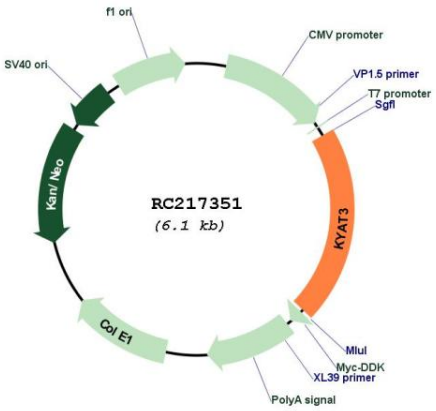
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001008662.2, NP_001008662.1
RefSeq Size:	1938 bp
RefSeq ORF:	1263 bp
Locus ID:	56267
UniProt ID:	Q6YP21
Cytogenetics:	1p22.2
MW:	47.6 kDa
Gene Summary:	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]

Product images:



Circular map for RC217351

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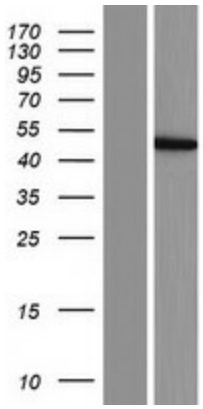
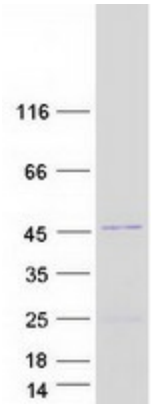


Western blot validation of overexpression lysate (Cat# [LY423345]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217351 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified KYAT3 protein (Cat# [TP317351]). The protein was produced from HEK293T cells transfected with KYAT3 cDNA clone (Cat# RC217351) using MegaTran 2.0 (Cat# [TT210002]).

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