

Product datasheet for **RC208154**

ETFBKMT (NM_173802) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ETFBKMT (NM_173802) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ETFBKMT
Synonyms:	C12orf72; ETFB-KMT; METTL20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC208154 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTTGAGTCTAGGTTGAAAGCACACAGGAACCACTGTGGTCTCCTCTTGCAGGCTCTGCGAAGCA
GTGGTCTTCTTGTTCCTGTGGCCAGTGTCCCTGGAGAGGAGCTGGAAGCTTTTGGACCCTGAGAT
AAAGCTTTCCTGGAGGAGAACAAGTCAAGTCAAGCAGTGGTAGCCTCACCCCTGAAATCCAGTTGCGG
CTTTTACCCCCAGATGCAAATCTGGTGGGAGAGAGCTGACCTGTGGCCCCACAGTGATCCTTACTGGG
CAATCTACTGGCCAGGAGGCCAAGCCCTGTCTAGGTATCTTTGGATAATCCTGATGTTGTCAGAGGAAA
ATCTGTATTAGATCTTGGGAGTGGATGTGGAGCTACAGCTATTGCTGCTAAGATGAGTGGGCATCAAGG
ATCTTGGCCAATGACATAGACCCTATTGCAGGAATGGCTATTACACTAAATTGTGAATTGAACAGACTGA
ATCCTTTTCTATTTTAAATCCAAAACATTTTGAATTTGGAACAAGATAAGTGGGACCTTGTGTTCTTGG
CGATATGTTTTATGATGAAGACCTTGCAGATAGTCTTCATCAGTGGCTGAAGAAGTGCTTCTGGACCTAT
AGAAGTGGTACTGATTGGTGACCCTGGGCGGCCAGTTCAGTGGACACAGCATTGAGCATCACCTGC
ACAAAGTGGTAGAATATTCATTTTGGAGTCTACTAGGCAGGAAAACAGTGGACTGACAACAAGCACAGT
GTGGGTTTTTCAGCCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC208154 protein sequence
Red=Cloning site Green=Tags(s)

MALSLGWKAHRNHCGLLLQALRSSGLLLFPCGQCPWRGAGSFLDPEIKAFLEENTEVTSSGSLTPEIQLR
 LLTPRCKFWWERADLWPHSDPYWAIYWPGGQALSRYLNDNPDVVRGKSVLDLGSGCCGATAIAAKMSGASR
 ILANDIDPIAGMAITLNCELNRLNPFPIILIQNILNLEQDKWDLVVLGDMFYDEDLADSLHQWLKCKFWTY
 RTRVLIGDPGRPQFSGHSIQHHLHKVVEYSLLESTRQENSGLTTSTVWGFQP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6348_a01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_173802

ORF Size: 786 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:

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_173802.4](#)

RefSeq Size: 2183 bp

RefSeq ORF: 789 bp

Locus ID: 254013

UniProt ID: [Q8IXQ9](#)

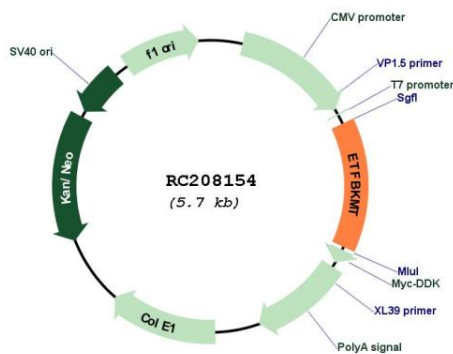
Cytogenetics: 12p11.21

Protein Families: Druggable Genome

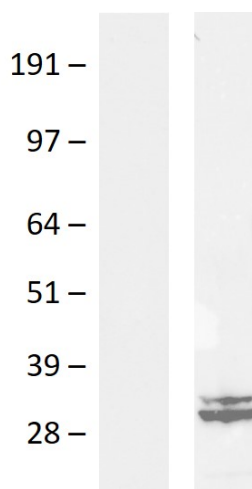
MW: 29.5 kDa

Gene Summary: Protein-lysine methyltransferase that selectively trimethylates the flavoprotein ETFB in mitochondria (PubMed:25023281, PubMed:25416781). Thereby, may negatively regulate the function of ETFB in electron transfer from Acyl-CoA dehydrogenases to the main respiratory chain (PubMed:25416781).[UniProtKB/Swiss-Prot Function]

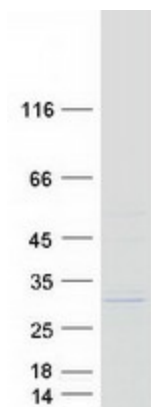
Product images:



Circular map for RC208154



Western blot validation of overexpression lysate (Cat# [LY427725]) using anti-DDK antibody (Cat# [TA592569]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC227491] using transfection reagent PEI.



Coomassie blue staining of purified ETFBKMT protein (Cat# [TP308154]). The protein was produced from HEK293T cells transfected with ETFBKMT cDNA clone (Cat# RC208154) using MegaTran 2.0 (Cat# [TT210002]).