

Product datasheet for **RG227491**

ETFBKMT (NM_001135864) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ETFBKMT (NM_001135864) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ETFBKMT
Synonyms:	C12orf72; ETFB-KMT; METTL20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG227491 representing NM_001135864 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTTGAGTCTAGGTTGAAAGCACACAGGAACCACTGTGGTCTCCTCTTGCAGGCTCTGCGAAGCA
GTGGTCTTCTCTGTTTCCCTGTGGCCAGTGTCCCTGGAGAGGAGCTGGAAGCTTTTTGGACCCTGAGAT
AAAGGCTTTCCTGGAGGAGAACAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGT
CTTTTACCCCGAGATGCAAATCTGGTGGGAGAGAGCTGACCTGTGGCCACAGTGATCCTTACTGGG
CAATCTACTGGCCAGGAGCCAAGCCCTGTCTAGGTATCTTTGGATAATCCTGATGTTGTCAGAGGAAA
ATCTGTATTAGATCTTGGGAGTGGATGTGGAGCTACAGCTATTGCTGCTAAGATGAGTGGGGCATCAAGG
ATCTTGGCCAATGACATAGACCCTATTGCAAGAAATGGCTATTACACTAAATTGTGAATTGAACAGACTGA
ATCCTTTTCTATTTTAAATCCAAAACATTTTGAATTTGGAACAAGATAAGTGGGACCTTGTGTTCTTGG
CGATATGTTTTATGATGAAGACCTTGCAGATAGTCTTCACTAGTGGTGAAGAAGTGTCTTGGACCTAT
AGAAGTGGTACTGATTGGTGAACCTGGGCGGCCAGTTCAGTGGACACAGCATTAGCATCACCTGC
ACAAAGTGGTAGAATATCACTTTGGAGTCTACTAGGCAGGAAAACAGTGGACTGACAACAAGCACAGT
GTGGGGTTTTTCAGCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG227491 representing NM_001135864
Red=Cloning site Green=Tags(s)

MALSLGWKAHRNHCGLLQLRSSGLLLFPCGQCPWRGAGSFLDPEIKAFLEENTEVTSSGSLTPEIQLR
 LLTPRCKFWWERADLWPHSDPYWAIYWPGGQALSRYLNDNPDVVRGKSVLDLGSGCCGATAIAAKMSGASR
 ILANDIDPIAGMAITLNCELNRLNPFPIILIQNILNLEQDKWDLVVLGDMFYDEDLADSLHQWLKCKFWTY
 RTRVLIGDPGRPQFSGHSIQHHLHKVVEYSLLESTRQENSGLTTSTVWGFQP

TRTRPLE - GFP Tag - V

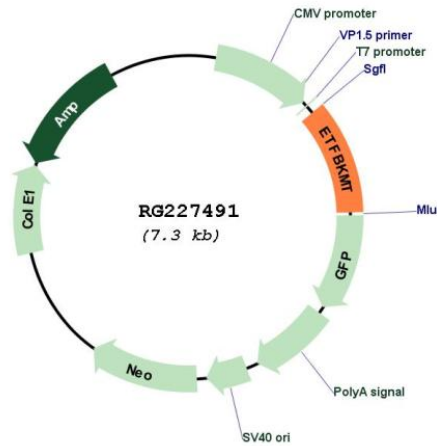
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001135864

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:	<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_001135864.1 , NP_001129336.1
RefSeq Size:	2103 bp
RefSeq ORF:	789 bp
Locus ID:	254013
UniProt ID:	Q8IXQ9
Cytogenetics:	12p11.21
Protein Families:	Druggable Genome
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]