

Product datasheet for RC236424

METTL23 (NM_001302703) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: METTL23 (NM_001302703) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: METTL23
Synonyms: C17orf95; MRT44
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC236424 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTATGTTTGGCCCTGTGCTGTGGTCTGGCCAGTACCTTTGGTTTCACAGAAGATCTCTGCCAGGCA
 AGGCCATCTTAGAGATTGGAGCTGGAGTGAGCCTTCCAGGAATTTGGCTGCCAAATGGGTGCAGAAGT
 AATACTGTCAGACAGCTCAGAACTGCCTCACTGTCTGGAAGTCTGTGGCAAAGCTGCCAAATGAATAAC
 CTGCCACATCTGCAGGTGGTAGGACTAACATGGGGTCATATATCTGGGATCTTCTGGCTCTACCACCAC
 AAGATATTATCCTTGCATCTGATGTGTTCTTTGAACCAGAAGATTTGAAGACATTTGGCTACAATATA
 TTTTTTGATGCACAAGAATCCCAAGGTCCAATTGTGGTCTACTTATCAAGTTAGGAGTGCTGACTGGTCA
 CTTGAAGCTTTACTCTACAAATGGGATATGAAATGTGTCCACATTCCTCTTGAGTCTTTGATGCAGACA
 AAGAAGATATAGCAGAATCTACCCTTCCAGGAAGACATACAGTTGAAATGCTGGTCATTTCTTTGCAAA
 GGACAGTCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236424 protein sequence
 Red=Cloning site Green=Tags(s)

MYVWPCAVVLAQYLWFHRRSLPGKAILEIGAGVSLPGILAAKCGAEVILSDSSELPHCLEVCRQSCQMNN
 LPHLQVVGLTWGHISWDLALPPQDIILASDVFFEPEDFEDILATIYFLMHKNPKVQLWSTYQVRSADWS
 LEALLYKWDMKCVHIPLSFADADKEDIAESTLPGRHTVEMLVISFAKDSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Chromatograms: https://cdn.origene.com/chromatograms/mk8121_d08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001302703

ORF Size: 570 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_001302703.1](#), [NP_001289632.1](#)

RefSeq Size: 1097 bp

RefSeq ORF: 573 bp

Locus ID: 124512

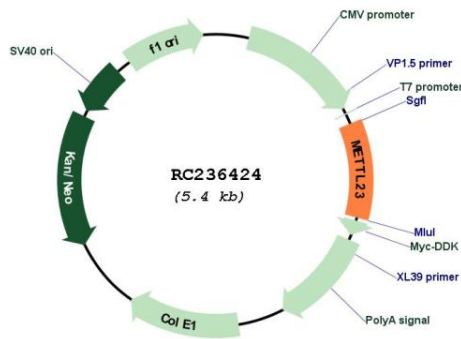
UniProt ID: [Q86XA0](#)

Cytogenetics: 17q25.1

MW: 21.5 kDa

Gene Summary: The protein encoded by this gene functions as a transcription factor regulator in the transcriptional pathway for human cognition. It is a partner of the alpha subunit of the GA-binding protein transcription factor. Mutations in this gene cause mild autosomal recessive intellectual disability. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2014]

Product images:



Circular map for RC236424