

## Product datasheet for **SC311188**

### **METTL21D (VCPKMT) (NM\_001040662) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	METTL21D (VCPKMT) (NM_001040662) Human Untagged Clone
Tag:	Tag Free
Symbol:	METTL21D
Synonyms:	C14orf138; METTL21D; VCP-KMT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC311188 representing NM_001040662. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG  
 GATCCGGTACCGAGGAGATCTGCCGCC**CGCATCGCC**  
 ATGGCGGATACGCTGGAGTCCTCGCTGGAGGACCACTGCGGAGCTTTGTGCGAGTTTGGAGAAGCGG  
 GATGGTACAGTGCTACGACTACAGCAGTATAGCTCCGGTGGCGTGGGTTGCGTTGTGGGACGCTGCC  
 ATTGTCCTTTCTAAATACCTGGAAACGCCCGAGTTTCTGGCGACGGGGCCACGCGCTGAGCCGGCGG  
 TCGGTGCTGGAGCTGGGTCGGGCACCGGGCCGTGGGGCTCATGGCTGCTACCCTCGGGGCTGATGTT  
 GTAGTCACCGATCTTGAGGAATTGCAAGACTTGCTGAAGATGAATTAATATGAACAAGCATCTTGTC  
 ACTGGTCTGTTCAAGCCAAGTACTGAAATGGGGGAAGAAATAGAAGGCTTTCCTTCTCCACCCGAC  
 TTCATACTGATGGCCGACTGCATATACTATGAAGAGTCTTGGAGCCATTGCTGAAAACCTAAAAGAT  
 ATCAGCGGATTTGAAACTTGATTATATGTTGTTATGAACAACGAACAATGGGGAAAAATCCAGAAATT  
 GAGAAAAAATATTTTGAGAAATTCCATCG**TGA**  
**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT  
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001040662
Insert Size:	585 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).


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<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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>	<u><a href="#">NM_001040662.1</a></u>
<b>RefSeq Size:</b>	1679 bp
<b>RefSeq ORF:</b>	585 bp
<b>Locus ID:</b>	79609
<b>UniProt ID:</b>	<u><a href="#">Q9H867</a></u>
<b>Cytogenetics:</b>	14q21.3
<b>MW:</b>	21.4 kDa
<b>Gene Summary:</b>	<p>Protein-lysine N-methyltransferase that specifically trimethylates 'Lys-315' of VCP/p97; this modification may decrease VCP ATPase activity.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) lacks an in-frame exon in the 3' coding region, compared to variant 1, which results in a shorter protein (isoform B), compared to isoform A.</p>