

## Product datasheet for **SC317645**

### **METTL22 (NM\_024109) Human Untagged Clone**

#### Product data:

|                           |                                                                                         |
|---------------------------|-----------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                     |
| Product Name:             | METTL22 (NM_024109) Human Untagged Clone                                                |
| Tag:                      | Tag Free                                                                                |
| Symbol:                   | METTL22                                                                                 |
| Synonyms:                 | C16orf68                                                                                |
| Mammalian Cell Selection: | Neomycin                                                                                |
| Vector:                   | pCMV6-Entry (PS100001)                                                                  |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                                                    |
| Fully Sequenced ORF:      | >SC317645 representing NM_024109.<br>Blue=Insert sequence Red=Cloning site Green=Tag(s) |

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG  
GATCCGGTACCGAGGAGATCTGCCGCC**CGCATCGCC**  
ATGGTACAGCTGGCTCCTGCGGCAGCCATGGACGAGGTCACTTTAGGAGCGACACTGTGCTGTCAGAT  
GTCCACCTCTATACCCGAACCATAGACATCTCATGGTACGGCTGAACAGCGTGGGGCAGCCAGTTTTC  
CTGTCCCAATTCAAGCTTCTATGGAGCCAAGACTCTTGGACAGATTCAAGGAGCAAGGGTGGCAGTCAC  
AGAGATGTTACACAAAGGAGCCTCCTTCTGCTGAGACAGGCAGCACAGGGTCCCTCCAGGAAGTGGC  
CATGGTAATGAGGGTTTCTCCCTCCAGGCCGGGACTGACACCACTGGCCAGGAAGTGGCTGAAGCTCAG  
CTGGATGAGGATGGGATTTGGACGTGGTGAGAAGACCACGAGCCGCCTCTGATTCCAACCCAGCAGGG  
CCTCTGAGAGACAAGGTACATCCCATGATTCTAGCACAGGAAGAAGACGACGTCTGGGAGAGGAAGCA  
CAAGGCAGCCCGCACGATATCATCAGAATAGAGCACACCATGGCCACGCCCTGGAGGATGTTGGCAAG  
CAGGTGTGGCGGGGCGCCCTGCTCCTGGCAGACTACATCCTGTTCCGACAGGACCTCTTCCGAGGATGT  
ACAGCGCTGGAGCTCGGGGCCGGCACGGGGCTCGCTAGCATCATCGCAGCCACCATGGCAGGACCGTT  
TATTGTACAGATGTGGTGCAGATCTTGTCCATGTGCCAGCGAAACATTGCCCTCAACAGCCACCTG  
GCTGCCACTGGAGGTGGTATAGTTAGGGTCAAAGAACTGGACTGGCTGAAGGACGACCTCTGCACAGAT  
CCCAAGGTCCCTTCAGTTGGTCACAAGAGGAAATTTCTGACCTGTACGATCACACCACCATCCTGTTT  
GCAGCCGAAGTGTTCACGACGACGACTTGACTGATGCTGTGTTTAAACGCTCTCCCGACTCGCCAC  
AGATTGAAAAATGCCTGCACAGCCATACTGTGGTGAGAGAGGCTCAACTTCACACTGAGACACTTG  
GACGTACATGTGAAGCCTACGATCACTTCCGCTCCTGCCTGCACGCGCTGGAGCAGCTCACAGATGGC  
AAGCTGCGCTTCGTGGTGGAGCCGTGGAGGCCTCCTTCCACAGCTCCTGGTTTACGAGCGCTCCAG  
CAGCTGGAGCTCTGGAAGATCATCGCAGAACCAGTAACA**TGA**  
**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT  
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC

Restriction Sites: Sgfl-MluI



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|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ACCN:</b>                  | NM_024109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Insert Size:</b>           | 1215 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>OTI Disclaimer:</b>        | 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).                                                                                                                                                                          |
| <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>NM_024109.3</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>RefSeq Size:</b>           | 1617 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 1215 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Locus ID:</b>              | 79091                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>UniProt ID:</b>            | <u>Q9BUU2</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Cytogenetics:</b>          | 16p13.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>MW:</b>                    | 44.5 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Gene Summary:</b>          | <p>This gene encodes a member of the non-histone lysine methyltransferases. It interacts with its substrate, Kin17, which is involved in DNA repair and replication and mRNA processing. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2016]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the supported protein.</p>                                                                                                               |