

Product datasheet for **SC319778**

C19orf56 (WDR83OS) (NM_016145) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: C19orf56 (WDR83OS) (NM_016145) Human Untagged Clone
Tag: Tag Free
Symbol: C19orf56
Synonyms: ASTERIX; C19orf56; PTD008
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC (PS100020)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_016145.1
 CTGGCCTTCGACTCGCTATGTCCACTAACAAATATGTCGGACCCACGGAGGCCGAACAAAG
 TGCTGAGGTACAAGCCCCCGCCGAGCGAATGTAACCCGGCCTTGGACGCCGACGCCGG
 ACTACATGAACCTGCTGGGCATGATCTTCAGCATGTGCGCCCTCATGCTTAAGCTGAAGT
 GGTGTGCTTGGGTCGCTGTCTACTGCTCCTTCATCAGCTTTGCCAACTCTCGGAGCTCGG
 AGGACACGAAGCAAATGATGAGTAGCTTCATGCTGTCCATCTCTGCCGTGGTGATGTCCT
 ATCTGCAGAAATCCTCAGCCCATGACGCCCCATGGTGATACCAGCCTAGAAGGGTCACAT
 TTTGGACCCTGTCTATCCACTAGGCCTGGGCTTTGGCTGTAAACCTGCTGCCTTCAGCT
 GCCATCCTGGACTTCCCTGAATGAGGCCGTCTCGGTGCCCCAGCTGGATAGAGGGAACC
 TGGCCCTTTCCTAGGGAACACCCTAGGCTTACCCTCCTGCCTCCCTCCCTGCCTGCT
 GCTGGGGGAGATGCTGTCCATGTTTCTAGGGGTATTCATTTGCTTCTCGTTGAAACCTG
 TTGTTAATAAAGTTTTTCACTCTGGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 A

Restriction Sites: Please inquire

ACCN: NM_016145

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).

OTI Annotation: 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.



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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:	<u>NM_016145.1, NP_057229.1</u>
RefSeq Size:	870 bp
RefSeq ORF:	321 bp
Locus ID:	51398
UniProt ID:	<u>Q9Y284</u>
Cytogenetics:	19p13.13
Domains:	UPF0139
Protein Families:	Transmembrane
Gene Summary:	<p>Component of the PAT complex, an endoplasmic reticulum (ER)-resident membrane multiprotein complex that facilitates multi-pass membrane proteins insertion into membranes (PubMed:32814900). The PAT complex acts as an intramembrane chaperone by directly interacting with nascent transmembrane domains (TMDs), releasing its substrates upon correct folding, and is needed for optimal biogenesis of multi-pass membrane proteins (PubMed:32814900). WDR83OS/Asterix is the substrate-interacting subunit of the PAT complex, whereas CCDC47 is required to maintain the stability of WDR83OS/Asterix (PubMed:12475939, PubMed:32814900). WDR83OS/Asterix associates with the first transmembrane domain (TMD1) of the nascent chain, independently of the N-glycosylation of the chain and irrespective of the amino acid sequence and transmembrane topology of TMD1 (PubMed:12475939, PubMed:32814900). The PAT complex favors the binding to TMDs with exposed hydrophilic amino acids within the lipid bilayer and provides a membrane-embedded partially hydrophilic environment in which TMD1 binds (PubMed:32814900). [UniProtKB/Swiss-Prot Function]</p>