

Product datasheet for **SC318282**

TMEM146 (CATSPERD) (NM_152784) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM146 (CATSPERD) (NM_152784) Human Untagged Clone
Tag:	Tag Free
Symbol:	CATSPERD
Synonyms:	TMEM146
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



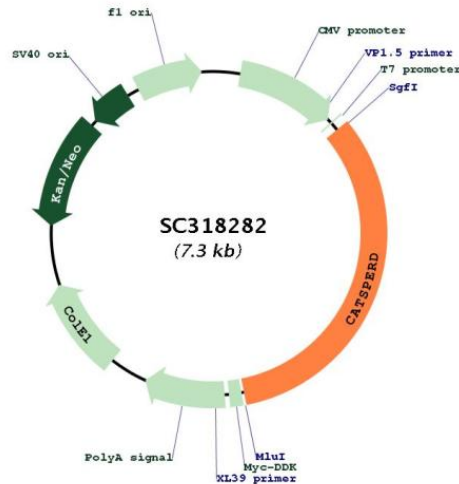
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Fully Sequenced ORF: >SC318282 representing NM_152784.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
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ATGCTGATGTTGATGCTGGTGGCGGCTGTGACCATGTGGCTCCGACCGCTGGTCACAGCTCAGCTCTGT
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Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_152784

Insert Size: 2397 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).

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.

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_152784.3](#)

RefSeq Size: 2528 bp

RefSeq ORF: 2397 bp

Locus ID: 257062

UniProt ID: [Q86XM0](#)

Cytogenetics: 19p13.3

Protein Families: Transmembrane

MW: 90.5 kDa

Gene Summary: Auxiliary component of the CatSper complex, a complex involved in sperm cell hyperactivation. Sperm cell hyperactivation is needed for sperm motility which is essential late in the preparation of sperm for fertilization. Required for CATSPER1 stability before intraflagellar transport and/or incorporation of the CatSper complex channel into the flagellar membrane.[UniProtKB/Swiss-Prot Function]