

Product datasheet for **SC304763**

Deleted in azoospermia 4 (DAZ4) (NM_020420) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Deleted in azoospermia 4 (DAZ4) (NM_020420) Human Untagged Clone
Tag:	Tag Free
Symbol:	Deleted in azoospermia 4
Synonyms:	pDP1680; pDP1681
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_020420 edited

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AGTCAGTCGGCCTGCGCTCCTCAGCCTGGCGGTTCTACCTCCGAGGGTTCGCCCCGCCCTT
GGTTTTCTTACACCTTAGCCTTTGGCTCCTTTGACCACTCGAAGCCCCACAGCGTGTTT
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TAAATGAATAAAAAATAAACTTTTTTTCTCAAAAAAAAAAAAAAAAAA

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Restriction Sites:	Please inquire
ACCN:	NM_020420
Insert Size:	3200 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:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_020420.2.
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_020420.2](#), [NP_065153.1](#)

RefSeq Size: 3271 bp

RefSeq ORF: 1173 bp

Locus ID: 57135

UniProt ID: [Q86SG3](#)

Cytogenetics: Yq11.23

Gene Summary: This gene is a member of the DAZ gene family and is a candidate for the human Y-chromosomal azoospermia factor (AZF). Its expression is restricted to premeiotic germ cells, particularly in spermatogonia. It encodes an RNA-binding protein that is important for spermatogenesis. Four copies of this gene are found on chromosome Y within palindromic duplications; one pair of genes is part of the P2 palindrome and the second pair is part of the P1 palindrome. Each gene contains a 2.4 kb repeat including a 72-bp exon, called the DAZ repeat; the number of DAZ repeats is variable and there are several variations in the sequence of the DAZ repeat. Each copy of the gene also contains a 10.8 kb region that may be amplified; this region includes five exons that encode an RNA recognition motif (RRM) domain. This gene contains two copies of the 10.8 kb repeat. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Feb 2011]

Transcript Variant: This variant (2) has multiple differences in the coding region, compared to variant 1. The resulting protein (isoform 2) is shorter and lacks one RRM domain and one DAZ repeat compared to isoform 1.

Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.