

Product datasheet for **RC229361**

DAZ1 (NM_004081) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DAZ1 (NM_004081) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DAZ1
Synonyms:	DAZ; SPGY
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC229361 ORF sequence, **codon optimized**.
Due to the complexity of NM_004081, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGTCTGCAGCTAACCCCGAGACACCTAATAGTACCATTAGCAGGGAGGCGAGCACCCAGTCATCCAGCG
 CAGCAGCATCTCAGGGCTGGTCTCCCTGAGGGTAAGATTGTGCCAACACTGTTTTCTGGGGGGCAT
 CGATGCTAGAATGGATGAAACCGAGATCGGGTCTGCTTCGGCAGATATGGATCAGTAAAAGAGGTGAAA
 ATAATCACCAATAGAACAGGCGTTAGTAAAGGTTACGGTTTCGTTAGCTTCGTC AACGACGTGGATGTGC
 AGAAGATCGTAGGCAGCCAAATACACTTTCATGGGAAGAAGTTGAAGCTTGGACCAAGCCATTTCGCAAACA
 GAAGCTGTGCGCTAGACACGTGCAGCCAAGACCACTTGTGGTAAATCCACCCCCCTCCACAGTTTCAG
 AATGTTTTGGAGAAACCCCAACCCGAGACATATCTGCAGCCTCAGATCACACCAACCCAGTCACCCAGC
 ACGTCCAAAGCGCCGGAATCCAGAACTCCAACAGCACCATCTCTAGAGAGGCTCCACACAGTCCAG
 CTCTGCTGCCGCTAGCCAGGGTGGTACTTCCCGAGGGAAGATCGTGCCAAATACCGTATTCGTGGGG
 GGGATAGATGCCCGCATGGACGAACTGAGATAGGATCATGCTTCGGCAGGTACGGTTCGTTGACGTCGA
 TTAAGATTATACCAATCGGACGGGCGTTAGTAAAGGGTACGGATTCGTGAGTTTCGTGACGTCGA
 TGTGCAAAAAATCGTCGGCTCACAGATTCATTTCCACGGGAAGAACTCAAGTGGGGCCAGCAATCAGG
 AAGCAGAAGTTGTGCGCACGGCATGTCCAGCCAAGACCTTTGGTGGTCAACCCACCCCGCTCCTCAAT
 TTCAGAACGTGTGGAGAAATCCAATACAGAACTACTTGCAGCCACAGATCACTCCAATCCCGTTAC
 ACAGCAGTGCAGTCAGCAGCAACCCCGAGACGCAAACTCAACAATTTCCAGGGAAGCCAGCACCCAG
 TCCTCTAGCGCTGCCGCTTACAGGGTGGTCTGCCGGAAGTAAGATTGTCCCGAATACTGTGTTCCG
 TAGGCGGAATCGATGCCCGCATGGATGAGACGGAATGGCAGCTGCTTCGGCAGGTACGGCTCCGTTAA
 GGAAGTAAAATCATCACTAATCGCACTGGTGTGTCAAAGGGTACGGTTCGTTAGCTTTGTGAACGAT
 GTCGATGCCAGAAGATAGTCGGAAGCCAGATCCATTTTCACGGAAGAAATGAAGCTTGGCCCTGCAA
 TCCGGAAGCAGAAGCTCTGTGCCAGGCATGTTCAACCACGCCCTCGTGGTTAATCCCTCCGCTCC
 CCAATTCAGAATGTTTGGCGCAATCCGAACACCGAGACTTACCTGCAGCCCAATCACCCCAATCCT
 GTGACACAGCATGTGCAGGCCTATAGCGCTTACCCCACTTACCAGGACAGGTGATCACTGGCTGTGAGC
 TGCTGTTTATAACTACCAGGAATACCCACATATCCCGACAGCGCTTTTCAGGTGACAAGTGGCTATCA
 ACTGCCGCTTACAATACTCAACCTTCCAGCGTATCCCGGTACCTTTCAGGTGACGGCGGGTTAC
 CAGCTTCTGTGTACAATACTACCAGGATTTCCCGCATACCTAATCTCCTTTTCAAGTTGCTACCGGAT
 ATCAGTCCCAGTCTACAATACTACAGCCCTCCCTGCCTACCCCTTCCACCTTCCAAGTGACCGCAGG
 CTATCAATTGCCAGTGTACAATACTACCAGGCTTTCCCGCATATCCAATAGTCTTTCCAAGTTGCTACT
 GGGTACCAATTTCCAGTGTATAATTATCAGGCCTTCCAGCCTATCCAATAGCCCTGTGCAGGTAAACCA
 CAGGTTATCAGTGCAGTCTATAATTACCAGGCCTTTCCCGGTACCCTTCTCCCTTTCCAGGTGAC
 CACTGGTTACCAGCTGCCTGTGTACAATACTAAGCCTTTCCAGCATATCCAATTCGCTGTGCAGGTT
 ACAACCGTTATCAGTTCATGTGTATAACTACCAGATGCCCCCAATGCCCTGTGGGGGAGCAGCGGA
 GAAACCTCGACAGAGGCTATAAATGGTGGTATCTGGTGTGCTGATACAGCGCCGAGAT

ACGGTACGGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC229361 representing NM_004081
 Red=Cloning site Green=Tags(s)

MSAANPETPNSTISREASTQSSSAAASQGWVLP⁺EGKIVPNTVVFVGGIDARMDETEIGSCFGRYGSVKEVK
 IITNRTGVSKGYGFVSFVNDVDVQKIVGSQIHFHGK⁺KLKLGPAIRKQKLCARHVQPRPLV⁺VNPPPPQFQ
 NVWRNPNTETYLQPQITPNPVTQHVQSAANPETPNSTISREASTQSSSAAASQGWVLP⁺EGKIVPNTVVFV
 GIDARMDETEIGSCFGRYGSVKEVKIITNRTGVSKGYGFVSFVNDVDVQKIVGSQIHFHGK⁺KLKLGPAIR
 KQKLCARHVQPRPLV⁺VNPPPPQFQNVWRNPNTETYLQPQITPNPVTQHVQSAANPETPNSTISREASTQ
 SSSAAASQGWVLP⁺EGKIVPNTVVFVGGIDARMDETEIGSCFGRYGSVKEVKIITNRTGVSKGYGFVSFVND
 VD⁺VQKIVGSQIHFHGK⁺KLKLGPAIRKQKLCARHVQPRPLV⁺VNPPPPQFQNVWRNPNTETYLQPQITPNP
 VTQHVQAYSAYPHSPGQVITGCQLLVYNYQEYPTYPDSAFQVTTGYQLPVYNYQPFAPYPRSPFQV⁺TAGY
 QLPVYNYQAFPAYPNSPFQVATGYQFPVYNYQPFAPYSSPFQV⁺TAGYQLPVYNYQAFPAYPNSPFQVAT
 GYQFPVYNYQAFPAYPNSPVQVTTGYQLPVYNYQAFPAYSSPFQV⁺TAGYQLPVYNYQAFPAYPNSAVQV
 TTGYQFHVYNYQMPPQCPVGEQRRNLWTEAYKWWYLVCLIQRRD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

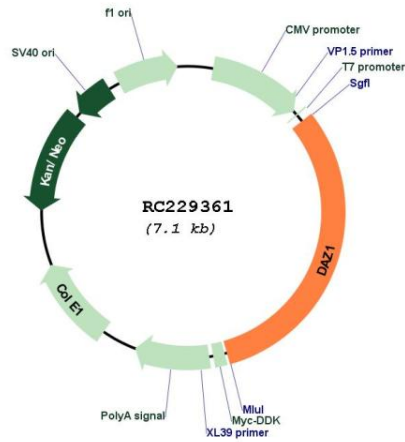
Sgfl-MluI

Cloning Scheme:



ACCN:	NM_004081
ORF Size:	2232 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	NM_004081.5 , NP_004072.3
RefSeq Size:	4419 bp
RefSeq ORF:	2235 bp
Locus ID:	1617
UniProt ID:	Q9NQZ3
Cytogenetics:	Yq11.223
MW:	82.8 kDa
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 three copies of the 10.8 kb repeat. However, no transcripts containing three copies of the RRM domain have been described; thus the RefSeq for this gene contains only two RRM domains. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC229361