

Product datasheet for **RG229361**

DAZ1 (NM_004081) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DAZ1 (NM_004081) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DAZ1
Synonyms:	DAZ; SPGY
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG229361 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
 AGAAGATCGTAGGCAGCCAAATACACTTTCATGGGAAGAAGTTGAAGCTTGGACCAAGCCATTCGCAAACA
 GAAGCTGTGCGCTAGACACGTGCAGCCAAGACCACTTGTGGTAAATCCACCCCCCTCCACAGTTTCAG
 AATGTTTTGGAGAAACCCCAACCCGAGACATATCTGCAGCCTCAGATCACACCAACCCAGTCACCCAGC
 ACGTCCAAAGCGCCGGAATCCAGAACTCCAACAGCACCATCTCTAGAGAGGCTCCACACAGTCCAG
 CTCTGCTGCCGCTAGCCAGGGTGGTACTTCCCGAGGGAAGATCGTGCCAAATACCGTATTCGTGGGG
 GGGATAGATGCCCGCATGGACGAACTGAGATAGGATCATGCTTCGGCAGGTACGGTTCGTTGACGTCGA
 TTAAGATTATACCAATCGGACGGGCGTTAGTAAAGGGTACGGATTCTGTAGTTTCGTGACGTCGA
 TGTGCAAAAAATCGTCGGCTCACAGATTCATTTCCACGGGAAGAACTCAAGCTGGGGCCAGCAATCAG
 AAGCAGAAGTTGTGCGCACGGCATGTCCAGCCAAGACCTTTGGTGGTCAACCCACCCCGCTCCTCAAT
 TTCAGAACGTGTGGAGAAATCCAATACAGAACTACTTGCAGCCACAGATCACTCCAATCCCGTTAC
 ACAGCAGTGCAGTCAGCAGCCAACCCCGAGACGCAACTCAACAATTTCCAGGGAAGCCAGCACCCAG
 TCCTCTAGCGCTGCCGCTTACAGGGTGGTCTGCCGGAAGTAAGATTGTCCGAATACTGTGTTCCG
 TAGGCGGAATCGATGCCCGCATGGATGAGACGGAATGGCAGCTGCTTCGGCAGGTACGGCTCCGTTAA
 GGAAGTAAAATCATCACTAATCGCACTGGTGTGTCAAAGGGTACGGTTCGTTAGCTTTGTGAACGAT
 GTCGATGCCAGAAGATAGTCGGAAGCCAGATCCATTTTACGGAAGAAATGAAGCTTGGCCCTGCAA
 TCCGGAAGCAGAAGCTCTGTGCCAGGCATGTTCAACCACGCCCTCGTGGTTAATCCCTCCGCTCC
 CCAATTCAGAATGTTTGGCGCAATCCGAACACCGAGACTTACCTGCAGCCCAATCACCCCAATCCT
 GTGACACAGCATGTGCAGGCCTATAGCGCTTACCCCAATCACCGGGACAGGTGATCACTGGCTGTGAGC
 TGCTGGTTTAACTACCAGGAATACCCACATATCCCGACAGCGCTTTTCAGGTGACAAGTGGCTATCA
 ACTGCCGCTTACAATACTCAACCTTCCAGCGTATCCCGGTACCTTTCAGGTGACGGCGGGTTAC
 CAGCTTCTGTGTACAATACTACCAGGATTTCCCGCATACCCTAATCTCCTTTTCAAGTTGCTACCGGAT
 ATCAGTCCCAGTCTACAATACTACAGCCCTCCCTGCCTACCCCTTCCACCTTCCAAGTGACCGCAGG
 CTATCAATTGCCAGTGTACAATACTACCAGGCTTTCCCGCATATCCAATAGTCTTTCCAAGTTGCTACT
 GGGTACCAATTTCCAGTGTATAATATCAGGCCTTCCAGCCTATCCAATAGCCCTGTGCAGGTAAACCA
 CAGGTTATCAGTGCAGTCTATAATTACCAGGCCTTTCCCGGTACCCTTCTCCCTTTCCAGGTGAC
 CACTGGTTACCAGCTGCCTGTGTACAATACTAAGCCTTTCCAGCATATCCAATTCGCTGTGCAGGTT
 ACAACCGTTATCAGTTCATGTGTATAACTACCAGATGCCCCCAATGCCCTGTGGGGGAGCAGCGGA
 GAAACCTCGACAGAGGCTATAAATGGTGGTATCTGGTGTGCCTGATACAGCGCCGAGAT

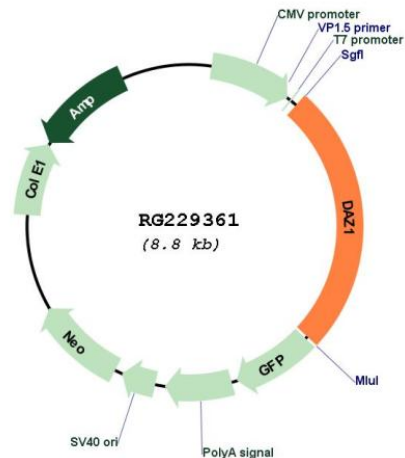
ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG229361 representing NM_004081
Red=Cloning site Green=Tags(s)

MSAANPETPNSTISREASTQSSSAAASQGWVLEPGKIVPNTVFGGIDARMDETEIGSCFGRYGSVKEVK
IITNRTGVSKGYGFVSFVNDVDVQKIVGSQIHFHGKLLKLGPAIRKQKLCARHVQPRPLVNNPPPPQFQ
NVWRNPNTETYLQPQITPNPVTQHVQSAANPETPNSTISREASTQSSSAAASQGWVLEPGKIVPNTVFG
GIDARMDETEIGSCFGRYGSVKEVKIITNRTGVSKGYGFVSFVNDVDVQKIVGSQIHFHGKLLKLGPAIR
KQKLCARHVQPRPLVNNPPPPQFQNVWRNPNTETYLQPQITPNPVTQHVQSAANPETPNSTISREASTQ
SSSAAASQGWVLEPGKIVPNTVFGGIDARMDETEIGSCFGRYGSVKEVKIITNRTGVSKGYGFVSFVND
VDVQKIVGSQIHFHGKLLKLGPAIRKQKLCARHVQPRPLVNNPPPPQFQNVWRNPNTETYLQPQITPNP
VTQHVQAYSAYPHSPGQVITGCQLLVYNYQEYPTYPDSAFQVTTGYQLPVYNYQPFAPYPRSPFQV
TAGYQLPVYNYQAFAPYNSPFQVATGYQFPVYNYQPFAPYSSPFQVATAGYQLPVYNYQAFAPYNSPFQV
ATGYQFPVYNYQAFAPYNSPVQVTTGYQLPVYNYQAFAPYSSPFQVTTGYQLPVYNYQAFAPYNSAVQV
TTGYQFHVYNYQMPPQCPVGEQRRNLWTEAYKWWYLVCLIQRRD

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Plasmid Map:


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:

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

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]