

Product datasheet for **RG214637**

DAZ2 (NM_020363) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	DAZ2
Synonyms:	pDP1678
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG214637 representing NM_020363
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTCTGCTGCAAACTCTGAGACTCCAACTCAACCATCTCCAGAGAGGCCAGCACCCAGTCTTCATCAG
 CTGCAGCTAGCCAAGGCTGGGTGTTACCAGAAGGCAAAATCGTGCCAAACACTGTTTTGTTGGTGGAAT
 TGATGCTAGGATGGATGAACTGAGATTGGAAGCTGCTTTGGTAGATACGGTTCAGTGAAAGAAGTGAAG
 ATAATCAGCAATCGAAGCTGGTGTGTCCAAAGGCTATGGATTGTTTCGTTTGTAAATGACGTGGATGTCC
 AGAAGATAGTAGGATCACAGATACATTTCCATGGTAAAAAGCTGAAGCTGGGCCCTGCAATCAGGAAACA
 AAAGTTATGTGCTCGTCATGTGCAGCCACGTCCTTTGGTAGTTAATCCTCCTCCTCCACCACAGTTTCAG
 AACGTCTGGCGGAATCCAAACACTGAAACCTACCTGCAGCCCCAAATCAGCGCGAATCCTGTAACCTCAGC
 ACGTTCAGGCTTATTCTGCTTATCCACATTCACCAGGTCAGGTTCATCACTGGATGTCAGTTGCTTGATA
 TAATTATCAGGAATATCCTACTTATCCCGATTGAGCATTTTCAGGTACCACTGGATATCAGTTGCCTGTA
 TATAATTATCAGCCATTTCTGCTTATCCAAGATCACCATTTTCAGGTCACTGCTGGATATCAGTTGCCTG
 TATATAATTATCAGGCATTTCTGCTTATCCAAATTCACCATTTCAAGTCGCCACTGGATATCAGTTCCC
 TGTATACAATTATCAGCCATTTCTGCTTATCCAAGTTCACCATTTTCAGGTCACTGCTGGATATCAGTTG
 CCTGTATATAATTATCAGGCATTTCTGCTTATCCAAATTCACCATTTCAAGTCGCCACTGGATATCAGT
 TCCCTGTATACAATTATCAGGCATTTCTGCTTATCCAAATTCACCAGTTCAGGTCACTGATATCA
 GTTGCCTGTATACAATTATCAGGCATTTCTGCTTATCCAAGTTCACCATTTTCAGGTCACTGATAT
 CAGTTGCCTGTATATAATTATCAGGCATTTCTGCTTATCCAAGTTCACCATTTTCAGGTCACTGAT
 ATCAGTTGCCTGTATATAATTATCAGGCATTTCTGCTTATCCAAGTTCACCATTTTCAGGTCACTGAT
 ATATCAGTTGCCTGTATATAATTATCAGGCATTTCTGCTTATCCAAGTTCACCATTTTCAGGTCACTG
 GGATATCAGTTGCCTGTATATAATTATCAGGCATTTCTGCTTATCCAAGTTCACCATTTTCAGGTCACT
 CTGGATATCAGTTGCCTGTATATAATTATCAGGCATTTCTGCTTATCCAAGTTCACCATTTTCAGGTCA
 CACTGGATATCAGTTGCCTGTATATAATTATCAGGCATTTCTGCTTATCCAAGTTCACCATTTTCAGGT
 ACCACTGGATATCAGTTGCCTGTATATAATTATCAGGCATTTCTGCTTATCCAAGTTCACCATTTTCAG
 TCACCACTGGATATCAGTTCCATGTATACAATTACCAGATGCCACCGCAGTGCCTGTTGGGAGCAAAG
 GAGAAATCTGTGGACCGAAGCATACAATGGTGGTATCTTGCTGTTTAAATCCAGAGAAGAGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG214637 representing NM_020363
 Red=Cloning site Green=Tags(s)

MSAANPETPNSTISREASTQSSSAAASQGWVLPKGKIVPNTVFVGGIDARMDTEIGSCFGRYGSVKEVK
 IITNRTGVSKGYGFVSFVNDVDVQKIVGSQIHFGKKLKLGPARKQKLCARHVQPRPLVNP PPPPQFQ
 NVWRNPNTETYLQPIITPNPVTQHVQAYSAYPHSPGQVITGCQLLVYNYQEYPTYPDFAFQVTTGYQLPV
 YNYQFPAYPRSPFQVATGYQLPVYNYQAFPAYPNPSPFQVATGYQFPVYNYQFPAYPSSPFQVATGYQL
 PVYNYQAFPAYPNPSPFQVATGYQFPVYNYQAFPAYPNPSPVQVTTGYQLPVYNYQAFPAYPSSPFQVTTGY
 QLPVYNYQAFPAYPSSPFQVTTGYQLPVYNYQAFPAYPSSPFQVTTGYQLPVYNYQAFPAYPSSPFQVTT
 GYQLPVYNYQAFPAYPSSPFQVTTGYQLPVYNYQAFPAYPSSPFQVTTGYQLPVYNYQAFPAYPSSPFQV
 TTGYQLPVYNYQAFPAYPNQVTTGYQFHVYNYQMPPQCPVGEQRRNLWTEAYKWWYLVCLIQRRD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020363

ORF Size: 1674 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_020363.2](#), [NP_065096.1](#)

RefSeq Size: 3759 bp

RefSeq ORF: 1677 bp

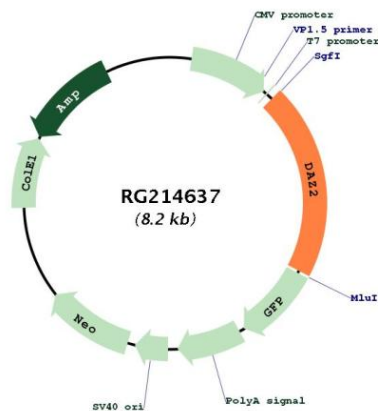
Locus ID: 57055

UniProt ID: [Q13117](#)

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 one copy of the 10.8 kb repeat. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG214637