

Product datasheet for **RC214637**

DAZ2 (NM_020363) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DAZ2 (NM_020363) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DAZ2
Synonyms:	pDP1678
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC214637 representing NM_020363
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGCTGTGTCGAAATCCTGAGACTCCAACTCAACCATCTCCAGAGAGGCCAGCACCCAGTCTTCATCAG
 CTGCAGCTAGCCAAGGCTGGGTGTTACCAAGGCAAAATCGTGCCAAACACTGTTTTGTTGGTGAAT
 TGATGCTAGGATGGATGAACTGAGATTGGAAGCTGCTTTGGTAGATACGGTTCAGTGAAAGAAGTGAAG
 ATAATCACGAATCGAACTGGTGTGTCCAAAGGCTATGGATTTGTTTCGTTTGTTAATGACGTGGATGTCC
 AGAAGATAGTAGGATCACAGATACATTTCCATGGTAAAAAGCTGAAGCTGGGCCCTGCAATCAGGAAACA
 AAAGTTATGTGCTCGTCATGTGCAGCCACGTCTTTGGTAGTTAATCCTCCTCCTCCACCACAGTTTCAG
 AACGTCTGGCGGAATCCAAACACTGAAACCTACCTGCAGCCCCAAATCACGCCGAATCCTGTAACCTCAGC
 ACGTTCAGGCTTATTCTGCTTATCCACATTACCAGGTGAGGTGTCATCACTGGATGTCAGTTGCTTGATA
 TAATTATCAGGAATATCCTACTTATCCCGATTGAGCATTTAGGTGAGGTGAGGTGAGGTGAGGTGAGGTGAG
 TATAATTATCAGCCATTTCTGCTTATCCAAGATCACCATTTAGGTGAGGTGAGGTGAGGTGAGGTGAGGTGAG
 TATATAATTATCAGGCATTTCTGCTTATCCAATTACCATTTCAAGTCGCCACTGGATATCAGTTCCC
 TGTATACAATTATCAGCCATTTCTGCTTATCCAAGTTCACCATTTAGGTGAGGTGAGGTGAGGTGAGGTGAG
 CCTGTATATAATTATCAGGCATTTCTGCTTATCCAATTACCATTTAGGTGAGGTGAGGTGAGGTGAGGTGAG
 TCCCTGTATACAATTATCAGGCATTTCTGCTTATCCAATTACCATTTAGGTGAGGTGAGGTGAGGTGAGGTGAG
 GTTGCCTGTATACAATTATCAGGCATTTCTGCTTATCCAATTACCATTTAGGTGAGGTGAGGTGAGGTGAG
 CAGTTGCCTGTATACAATTATCAGGCATTTCTGCTTATCCAAGTTCACCATTTAGGTGAGGTGAGGTGAG
 ATCAGTTGCCTGTATACAATTATCAGGCATTTCTGCTTATCCAAGTTCACCATTTAGGTGAGGTGAGGTGAG
 ATATCAGTTGCCTGTATACAATTATCAGGCATTTCTGCTTATCCAAGTTCACCATTTAGGTGAGGTGAGGTGAG
 GGATATCAGTTGCCTGTATACAATTATCAGGCATTTCTGCTTATCCAAGTTCACCATTTAGGTGAGGTGAG
 CTGGATATCAGTTGCCTGTATACAATTATCAGGCATTTCTGCTTATCCAAGTTCACCATTTAGGTGAGGTGAG
 CACTGGATATCAGTTGCCTGTATACAATTATCAGGCATTTCTGCTTATCCAAGTTCACCATTTAGGTGAGGTGAG
 ACCACTGGATATCAGTTGCCTGTATACAATTATCAGGCATTTCTGCTTATCCAAGTTCAGCAGTTGAGG
 TCACCACTGGATATCAGTTCCATGTATACAATTACCAGATGCCACCGCAGTGCCTGTTGGGAGCAAAAG
 GAGAAATCTGTGGACCGAAGCATACAAATGGTGGTATCTTGTCTGTTAATCCAGAGAAGAGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC214637 representing NM_020363
 Red=Cloning site Green=Tags(s)

MSAANPETPNSTISREASTQSSSAAASQGWVLPQKIVPNTVFVGGIDARMDTEIGSCFGRYGSVKEVK
 IITNRTGVSKGYFVSFVNDVDVQKIVGSQIHFGKLLKLGPAIRKQKLCARHVQPRPLVYNPPPPQFQ
 NVWRNPNTETYLQPQITPNPVTQHVQAYSAYPHSPGQVITGCQLLVYNYQEYPTYPDSAFQVTTGYQLPV
 YNYQFPAYPRSPFQVTAGYQLPVYNYQAFPAYPNSPFQVATGYQFPVYNYQFPAYPSSPFQVTAGYQL
 PVYNYQAFPAYPNSPFQVATGYQFPVYNYQAFPAYPNSPVQVTTGYQLPVYNYQAFPAYPNSPVQVTTGY
 QLPVYNYQAFPAYPSSPFQVTTGYQLPVYNYQAFPAYPSSPFQVTTGYQLPVYNYQAFPAYPSSPFQVTT
 GYQLPVYNYQAFPAYPSSPFQVTTGYQLPVYNYQAFPAYPSSPFQVTTGYQLPVYNYQAFPAYPSSPFQV
 TTGYQLPVYNYQAFPAYPNSAVQVTTGYQFHVYNYQMPPQCPVGEQRRNLWTEAYKWWYLVCLIQRRD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8067_b12.zip

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_020363.3](#), [NP_065096.2](#)

RefSeq Size: 3759 bp

RefSeq ORF: 1677 bp

Locus ID: 57055

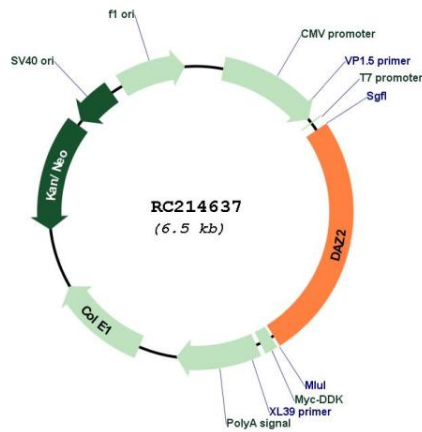
UniProt ID: [Q13117](#)

Cytogenetics: Yq11.223

MW: 63 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 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 RC214637