

## Product datasheet for **RG208193**

### Deleted in azoospermia 4 (DAZ4) (NM\_020420) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Deleted in azoospermia 4 (DAZ4) (NM_020420) Human Tagged ORF Clone          |
| Tag:                      | TurboGFP  |
| Symbol:                   | Deleted in azoospermia 4  |
| Synonyms:                 | pDP1680; pDP1681  |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)   |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| ORF Nucleotide Sequence:  | >RG208193 representing NM_020420<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTGCTGCAAATCCTGAGACTCCAACTCAACCATCTCCAGAGAGGCCAGCACCCAGTCTTCATCAG  
CTGCAGCTAGCCAAGGCTGGGTGTACCAGAAGGCAAAATCGTGCCAAACTGTTTTTGTGGTGAAT  
TGATGCTAGGATGGATGAACTGAGATTGGAAGCTGCTTTGGTAGATACGGTTCAGTAAAGAAGTGAAG  
ATAATCACGAATCGAACTGGTGTGTCCAAAGGCTATGGATTTGTTTCGTTTGTAAATGACGTGGATGTCC  
AGAAGATAGTAGGATCACAGATACATTTCCATGGTAAAAAGCTGAAGCTGGGCCCTGCAATCAGGAAACA  
AAAGTTATGTGCTCGTCATGTGCAGCCAGTCCTTTGGTAGTTAATCCTCCTCCTCCACCACAGTTTCAG  
AACGTCCTGGCGGAATCCAAACTGAAACCTACCTGCAGCCCAAATCACGCCGAATCCTGTAACCTCAGC  
ACGTTCCAGGCTTACTCTGCTTATCCACATTCACCAGGTCAGGTCATCACTGGATGTCAGTTGCTTGATATA  
TAATTATCAGGAATATCCTACTTATCCCGATTCAGCATTTCAGGTCACCCTGGATATCAGTTGCCTGTA  
TATAATTATCAGCCATTTCTGCTTATCCAAGATCACCATTTCAGGTCAGTCTGGATATCAGTTGCCTG  
TATATAATTATCAGGCATTTCTGCTTATCCAATTCCACATTTCAAGTCGCCACTGGATATCAGTTCC  
CCTGTATAAATTATCAGCCATTTCTGCTTATCCAAGTTCCACATTTCAAGTCGCCACTGGATATCAGT  
TCCTGTATAAATTATCAGGCATTTCTGCTTATCCAATTCCACATTTCAAGTCGCCACTGGATATCAGT  
GTTGCCTGTATAAATTATCAGGCATTTCTGCTTATCCAATTCCAGCAGTTCCAGGTCACCCTGGATAT  
CAGTTCCATGTATAAATTACCAGATGCCACCGCAGTGCCTGTTGGGGAGCAAAGGAGAAATCTGTGGA  
CCGAAGCATACAATGGTGGTATCTGTCTGTTTAAATCCAGAGAAGAGAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG208193 representing NM\_020420  
 Red=Cloning site Green=Tags(s)

MSAANPETPNSTISREASTQSSSAAASQGWVLPPEGKIVPNTVVFVGGIDARMDETEIGSCFGRYGSVKEVK  
 IITNRTGVSKGYGFVSFVNDVDVQKIVGSQIHFHGKLLKLGPAIRKQKLCARHVQPRPLVNNPPPPQFQ  
 NVWRNPNTETYLQFQITPNPVTQHVQAYSAYPHSPGQVITGCQLLVYNYQEYPTYPDFAFQVTTGYQLPV  
 YNYQFPAYPRSPFQVTAGYQLPVYNYQAFPAYPNSPFQVATGYQFPVYNYQFPAYPSSPFQVTAGYQL  
 PVYNYQAFPAYPNSPFQVATGYQFPVYNYQAFPAYPNSPVQVTTGYQLPVYNYQAFPAYPNSAVQVTTGY  
 QFHVYNYQMPPQCPVGEQRRNLWTEAYKWWYLVCLIQRRD

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_020420

**ORF Size:** 1170 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\\_020420.3](#)

**RefSeq Size:** 3271 bp

**RefSeq ORF:** 1173 bp

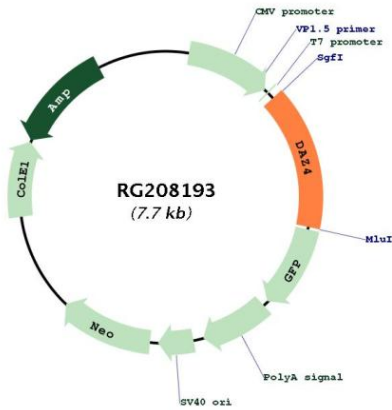
**Locus ID:** 57135

**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]

Product images:



Circular map for RG208193