

## Product datasheet for **SC303003**

### DAZL (NM\_001351) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | DAZL (NM_001351) Human Untagged Clone   |
| Tag:                      | Tag Free  |
| Symbol:                   | DAZL  |
| Synonyms:                 | DAZH; DAZL1; DAZLA; SPGYLA  |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |
| Fully Sequenced ORF:      | >SC303003 representing NM_001351.<br>Blue=Insert sequence Red=Cloning site Green=Tag(s) |

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG  
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**  
 ATGTCTACTGCAAATCTGAACTCCAACTCAACCATCTCCAGAGAGGCCAGCACCCAGTCCTCATCA  
 GCTGCAACCAGCCAAGGCTATATTTACCAGAAGGCAAAATCATGCCAAACACTGTTTTTGTGGAGGA  
 ATTGATGTTAGGATGGATGAACTGAGATTAGAAGCTTCTTTGCTAGATATGGTTCAGTGAAGAAGTG  
 AAGATAATCACTGATCGAACTGGTGTGCCAAAGGCTATGGATTTGTTTCATTTTTTAATGACGTGGAT  
 GTGCAGAAGATAGTAGAATCACAGATAAATTTCCATGGTAAAAAGCTGAAGCTGGGCCCTGCAATCAGG  
 AAACAAAATTTATGTGCTTATCATGTGCAGCCACGTCCTTTGGTTTTAATCATCCTCCTCCACCACAG  
 TTTCAGAAATGTCTGGACTAATCCAAACACTGAACTTATATGCAGCCACAAACCAGATGAATCCTATA  
 ACTCAGTATGTTCAAGCATATCCTACTTACCCAAATTCACCAGTTCAGGTCATCACTGGATATCAGTTG  
 CCTGTATATAATTATCAGATGCCACCACAGTGGCCTGTTGGGGAGCAAAGGAGCTATGTTGTACCTCCG  
 GCTTATTCAGCTGTTAACTACCACTGTAATGAAGTTGATCCAGGAGCTGAAGTTGTGCCAAATGAATGT  
 TCAGTTCATGAAGCTACTCCACCCTCTGGAAATGGCCACAAAAGAAATCTGTGGACCGAAGCATACAA  
 ACGGTGGTATCTGTCTGTTAATCCAGAGAACAGACTGAGAACTCTGTTGTTACTCAAGATGACTAC  
 TTCAAGGATAAAAGAGTGCATCACTTTAGAAGAAGTCGGGCAATGCTTAAATCTGTT**TGA**  
**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT  
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

|                    |           |
|--------------------|-----------|
| Restriction Sites: | SgfI-MluI |
| ACCN:              | NM_001351 |
| Insert Size:       | 888 bp    |


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|                               |  |
|-------------------------------|--|
| <b>OTI Disclaimer:</b>        | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).   |
| <b>OTI Annotation:</b>        | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.   |
| <b>Components:</b>            | 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).   |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>  |
| <b>RefSeq:</b>                | <u>NM_001351.3</u>   |
| <b>RefSeq Size:</b>           | 3054 bp  |
| <b>RefSeq ORF:</b>            | 888 bp   |
| <b>Locus ID:</b>              | 1618   |
| <b>UniProt ID:</b>            | <u>Q92904</u>  |
| <b>Cytogenetics:</b>          | 3p24.3   |
| <b>MW:</b>                    | 33.2 kDa   |
| <b>Gene Summary:</b>          | <p>The DAZ (Deleted in AZoospermia) gene family encodes potential RNA binding proteins that are expressed in prenatal and postnatal germ cells of males and females. The protein encoded by this gene is localized to the nucleus and cytoplasm of fetal germ cells and to the cytoplasm of developing oocytes. In the testis, this protein is localized to the nucleus of spermatogonia but relocates to the cytoplasm during meiosis where it persists in spermatids and spermatozoa. Transposition and amplification of this autosomal gene during primate evolution gave rise to the DAZ gene cluster on the Y chromosome. Mutations in this gene have been linked to severe spermatogenic failure and infertility in males. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2010]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (2) has a shorter and distinct N-terminus compared to isoform 2.</p> |