

Product datasheet for RC231158

DAZL (NM_001190811) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DAZL (NM_001190811) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: DAZL
Synonyms: DAZH; DAZL1; DAZLA; SPGYLA
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC231158 representing NM_001190811
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGGCGGCTCCCTCGTGTGGCGGCGACAGAAAAGCTCGCCTGACGCCATCTTTGCCGCACGAGTCTACTG
 CAAATCCTGAACTCCAACTCAACCATCTCCAGAGAGGCCAGCACCCAGTCCTCATCAGCTGCAACCAG
 CCAAGGCTATATTTACCAGAAGGCAAAATCATGCCAAACTGTTTTTGTGGAGGAATTGATGTTAGG
 ATGGATGAACTGAGATTAGAAGCTTCTTTGCTAGATATGGTTCAGTAAAGAAGTGAAGATAATCACTG
 ATCGAACTGGTGTGCCAAAGGCTATGGATTTGTTTCATTTTTAATGACGTGGATGTCAGAAGATAGT
 AGAATCACAGATAAATTTCCATGGTAAAAAGCTGAAGCTGGGCCCTGCAATCAGGAAACAAAATTTATGT
 GCTTATCATGTGCAGCCACGTCCTTTGGTTTTAATCATCCTCCTCCACCACAGTTTCAGAATGTCTGGA
 CTAATCCAAACTGAACTTATATGCAGCCACAACCACGATGAATCCTATAACTCAGTATGTTACGGC
 ATATCCTACTTACCCAAATTCACCAGTTCAGGTCACTGGATATCAGTTGCCTGTATATAATTATCAG
 ATGCCACCACAGTGGCCTGTTGGGGAGCAAAGGAGCTATGTTGTACCTCCGGCTTATTCAGCTGTTAACT
 ACCACTGTAATGAAGTTGATCCAGGAGCTGAAGTTGTGCCAAATGAATGTTTCAGTTCATGAAGCTACTCC
 ACCCTCTGGAAATGGCCCAAAAAGAAATCTGTGGACCGAAGCATACAAACGGTGGTATCTTGTCTGTTT
 AATCCAGAGAACAGACTGAGAACTCTGTTGTTACTCAAGATGACTACTCAAGGATAAAAAGAGTGATC
 ACTTTAGAAGAAGTCGGGCAATGCTTAAATCTGTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC231158 representing NM_001190811
 Red=Cloning site Green=Tags(s)

MAAPSCGGDRKARLTPSLPHESTANPETPNSTISREASTQSSAATSQGYILPEGKIMPNTVFVGGIDVR
 MDETEIRSFFARYGSVKEVKIITDRTGVSKGYGFVSFFNDVDVQKIVESQINFHGKLLKLGPAIRKQNL
 AYHVQPRPLVFNHPPPPQFQNVWTPNPTETYMQPTTTMNPITQYVQAYPTYPNSPVQVITGYQLPVYNYQ
 MPPQWPVGEQRSYVPPAYSAVNYHCNEVDPGAEEVVPNECSVHEATPPSGNGPQKKSVDRSIQTVVSCLF
 NPENRLRNSVVTQDDYFKDKRVHHFRSRAMLKSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8051_d01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001190811

ORF Size: 945 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_001190811.1](#), [NP_001177740.1](#)

RefSeq ORF: 948 bp

Locus ID: 1618

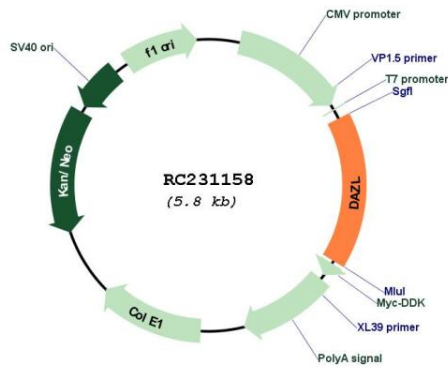
UniProt ID: [Q92904](#)

Cytogenetics: 3p24.3

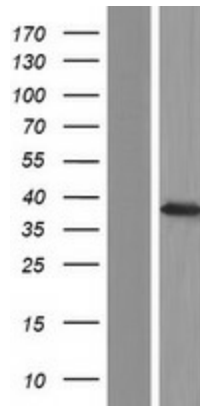
MW: 35.7 kDa

Gene Summary: 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]

Product images:



Circular map for RC231158



Western blot validation of overexpression lysate (Cat# [LY434157]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC231158 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).