

Product datasheet for **RC205328**

DAZL (NM_001351) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DAZL (NM_001351) 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:	>RC205328 representing NM_001351 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTACTGCAAATCCTGAACTCCAACTCAACCATCTCCAGAGAGGCCAGCACCCAGTCCTCATCAG
CTGCAACCAGCCAAGGCTATATTTTACCAGAAGGCAAAATCATGCCAAACTGTTTTTGTGGAGGAAT
TGATGTTAGGATGGATGAACTGAGATTAGAAGCTTCTTTGCTAGATATGGTTCAGTAAAAGAAGTGAAG
ATAATCACTGATCGAACTGGTGTGTCCAAAGGCTATGGATTTGTTTCATTTTTTAATGACGTGGATGTGC
AGAAGATAGTAGAATCACAGATAAATTTCCATGGTAAAAAGCTGAAGCTGGGCCCTGCAATCAGGAAACA
AAATTTATGTGCTTATCATGTGCAGCCAGTCCTTTGGTTTTTAATCATCCTCCTCCACCACAGTTTCAG
AATGTCTGGACTAATCCAAACTGAACTTATATGCAGCCCACAACCACGATGAATCCTATAACTCAGT
ATGTTCCAGGCATATCCTACTTACCCAAATTCACCAGTTCAGGTCACTACTGGATATCAGTTGCCTGTATA
TAATTATCAGATGCCACCACAGTGGCCTGTTGGGGAGCAAAGGAGCTATGTTGTACCTCCGGCTTATTCA
GCTGTTAACTACCACTGTAATGAAGTTGATCCAGGAGCTGAAGTTGTGCCAAATGAATGTTCAAGTTCATG
AAGCTACTCCACCCTCTGGAAAATGGCCACAAAAGAAATCTGTGGACCGAAGCATACAAACGGTGGTATC
TTGTCTGTTTAAATCCAGAGAACAGACTGAGAACTCTGTTGTTACTCAAGATGACTACTTCAAGGATAAA
AGAGTGCATCACTTTAGAAGAAGTCGGGCAATGCTTAAATCTGTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC205328 representing NM_001351
Red=Cloning site Green=Tags(s)

MSTANPETPNSTISREASTQSSAATSQGYILPEGKIMPNTVFVGGIDVRMDETEIRSFARYGSVKEVK
 IITDRTGVSKGYGFVSFNDVDVQKIVESQINFHGKLLKLPALRKQNLCAHYHVQPRPLVFNHPPPPQFQ
 NVWTNPNTETYMQPTTTMNPITQYVQAYPTYPNSPVQVITGYQLPVYNYQMPQPWPVGEQRSYVPPAYS
 AVNYHCNEVDPGAEEVVPNECSVHEATPPSGNGPQKKSVDRSIQTVVVSCLFNPNENLRNSVVTQDDYFKDK
 RVHHFRRSRAMLKSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2583_g05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001351

ORF Size: 885 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.

RefSeq: [NM_001351.4](#)

RefSeq Size: 3056 bp

RefSeq ORF: 888 bp

Locus ID: 1618

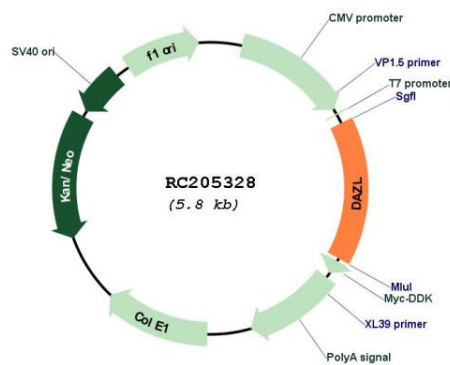
UniProt ID: [Q92904](#)

Cytogenetics: 3p24.3

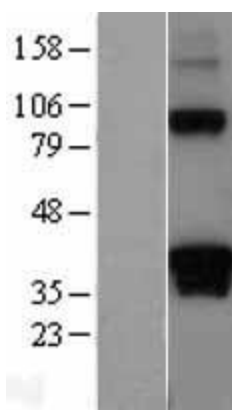
MW: 33 kDa

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]

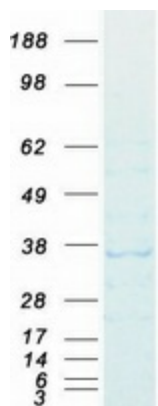
Product images:



Circular map for RC205328



Western blot validation of overexpression lysate (Cat# [LY400541]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205328 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DAZL protein (Cat# [TP305328]). The protein was produced from HEK293T cells transfected with DAZL cDNA clone (Cat# RC205328) using MegaTran 2.0 (Cat# [TT210002]).