

## Product datasheet for RC216522

### DAZAP1 (NM\_170711) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DAZAP1 (NM_170711) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DAZAP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC216522 representing NM_170711 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC

ATGAACAACCTCGGGCGCCGACGAGATCGGGAAGCTCTTCGTGGGCGGTCTTGACTGGAGCAGACCCAAAG  
AGACTCTGCGCAGCTACTTTCCCAATATGGAGAAGTCGTAGATTGTGTTATCATGAAAGATAAAACCAC  
CAACCACTCTCGAGGCTTTGGGTTTGTCAAATTTAAAGACCCAACTGTGTGGGGACGGTCTGGCCAGC  
AGACCCGACACGCTAGATGGCCGAAACATCGACCCCAAGCCATGCACACCCCGGGGGATGCAGCCGGAGA  
GAACACGGCCGAAGGAAGGATGGCAGAAAGGACCCAGGAGCGATAACAGTAAATCAAATAAGATATTTGT  
CGGTGGAATTCCTACAATTGTGGTGAGACAGAGCTCAGGGAATACTTCAAGAAGTTCGGAGTGGTCACG  
GAGGTAGTCATGATCTATGACGCCGAGAAGCAGAGGCCCGAGGTTTTGGATTTATTACTTTTCGAGGACG  
AACAAATCAGTGGACCAGGCTGTCAACATGCATTTTACGACATCATGGGCAAAAAGTGGAGTTAAACG  
AGCTGAGCCTCGGGACAGCAAGAGCCAAGCGCCGGGACAGCCAGGTGCCAGCCAGTGGGGAGCCGGGTT  
GTGCCAACGCTGCCAATGGCTGGGCAGGCCAGCCCCGCCACGTGGCAGCAAGGATATGGCCCGAAG  
GAATGTGGGTGCCGGCAGGACAGGCGATTGGTGGCTATGGACCGCCCCCTGCAGGAAGAGGAGCCCGCC  
GCCACCCCACTTACCTCTACATCGTGTCCACCCCTCCTGGAGGCTTTCCCTCCAGGGCTTC  
CCTCAGGGCTACGGTGCCTGCCACAGTTCAGTTTTGGCTACGGGCTCCACCTCCACCGCCAGATCAGT  
TTGCCCTCCGGGGTTCCTCCTCCACAGCCACTCCCGGGGACGACCTCTGGCTTTCCACCGCTCC  
GTCTCAGGCTGCCCGGACATGAGCAAGCCCCGACAGCTCAGCCAGACTTCCCTATGGTCAGTATGGC  
CTGGGTTCTATCTCCAGCCCCGCCGGCTGCGGCCACACTTTGTTTACAGTCTTATGGTCAGGCTGA  
GCAGTATGTGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC216522 representing NM\_170711  
Red=Cloning site Green=Tags(s)

MNNSGADEIGKLFVGGLDWSTTQETLSYFSQYGEVVDVCIMKDKTTNQRSRGFGFVKFKDPNCVGTVLAS  
 RPHTLDGRNIDPKPCTPRGMQPERTRPKKEGWQKGPRSDNSKSNKIFVGGIPHNCGETELREYFKKFGVVT  
 EVVMIYDAEKQRPRGFGFITFEDEQSVDQAVNMHFHDIMGKKVEVKRAEPRDSKQAPGQPGASQWGSRV  
 VPNAANGWAGQPPTWQQGYGPGQGMWVPAGQAIIGYGPPPAGRGAPPPPPFTSYIVSTPPGGFPPPQGF  
 PQGYGAPPQFSFYGPPPPPDQFAPPGVPPPPATPGAAPLAFPPPPSQAAPDMSKPPTAQPDFPYGYG  
 LGSYSPAPPGCGPHFVYSLMVRLLSSDVA

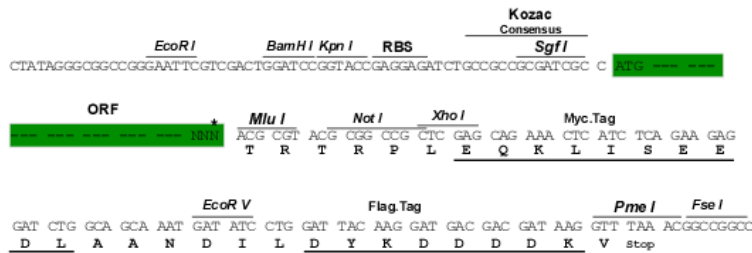
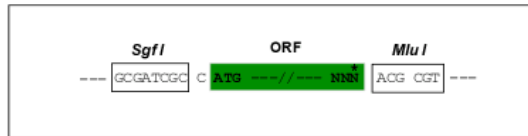
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8055\\_h03.zip](https://cdn.origene.com/chromatograms/mk8055_h03.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\_170711

**ORF Size:** 1134 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\\_170711.3](#)

**RefSeq Size:** 2274 bp

**RefSeq ORF:** 1137 bp

**Locus ID:** 26528

**UniProt ID:** [Q96EP5](#)

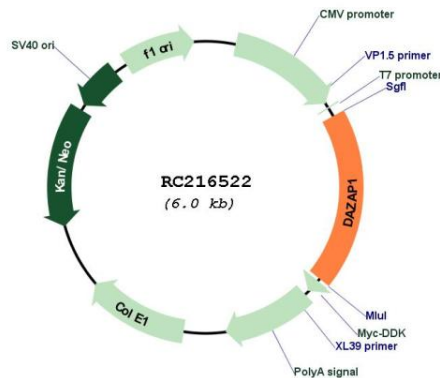
**Cytogenetics:** 19p13.3

**Protein Families:** Stem cell - Pluripotency

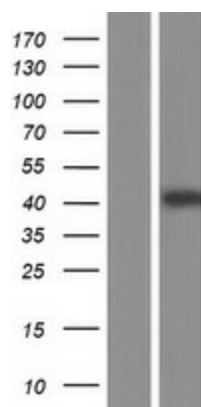
**MW:** 40.3 kDa

**Gene Summary:** In mammals, the Y chromosome directs the development of the testes and plays an important role in spermatogenesis. A high percentage of infertile men have deletions that map to regions of the Y chromosome. The DAZ (deleted in azoospermia) gene cluster maps to the AZFc region of the Y chromosome and is deleted in many azoospermic and severely oligospermic men. It is thought that the DAZ gene cluster arose from the transposition, amplification, and pruning of the ancestral autosomal gene DAZL also involved in germ cell development and gametogenesis. This gene encodes a RNA-binding protein with two RNP motifs that was originally identified by its interaction with the infertility factors DAZ and DAZL. Two isoforms are encoded by transcript variants of this gene. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RC216522



Western blot validation of overexpression lysate (Cat# [LY406890]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216522 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).