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Product datasheet for RG223217

BOULE (BOLL) (NM_197970) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BOULE (BOLL) (NM_197970) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BOULE
Synonyms:	BOULE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

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>RG223217 representing NM_197970
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAACCGAGTCCGGGCCGCAAACATCAAACCAGATGCAAACAGATTCATTATCTCCATCCCCTAATC
CTGTGTCACCTGTGCCTTTGAATAACCCAACAAGTGCCCCAAGATATGGAACAGTGATCCCTAATCGCAT
CTTTGTAGGAGGAATTGATTTTAAGACAAACGAAAGTGATTTAAGAAAATTTTTTTCCCAGTATGGGTCT
GTGAAAGAAGTGAAGATTGTAAATGACAGAGCTGGAGTATCCAAAGGGTATGGTTTCGTCACTTTTGAAA
CACAAGAAGATGCACAAAAAATTTTACAAGAGGCTGAAAAACTTAATTATAAGGATAAGAAGCTGAACAT
TGGTCCAGCAATAAGAAAACAACAAGTAGGGATCCCTCGTTCTAGTATAATGCCAGCAGCTGGAACAATG
TATCTAACAACTTCAACTGGATATCCTTATACTTACCATAATGGTGTTGCTTATTTTCATACTCCAGAGG
TAACTTCGGTCCCACCGCCTTGGCCTTCACGTTCTGTATGTAGCTCCCCTGTGATGGTAGCTCAGCCCAT
TTATCAGCAACCTGCATATCACTACCAGGCCACCACACAGTATTTACCAGGACAGTGGCAGTGGAGTGTT
CCTCAGCCTTCTGCCTCTTCTGCTCCATTCTTATACCTGCAACCTTCTGAGGTTATTTATCAACCAGTGG
AAATTGCACAGGATGGTGGATGTGTTCCTCCTCCACTGTCTCTGATGGAAACTTCAGTTCCAGAGCCTTA
TTCTGATCATGGAGTTCAAGCAACATATCACCAGGTTTATGCTCCAAGTGCCATCACTATGCCTGCGCCT
GTGATGCAGCCTGAGCCAATTAAAACAGTGTGGAGCATTCATTAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag -  GTTTAA
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Protein Sequence:

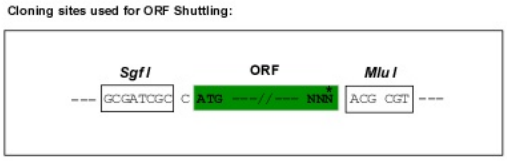
>RG223217 representing NM_197970
Red=Cloning site Green=Tags(s)

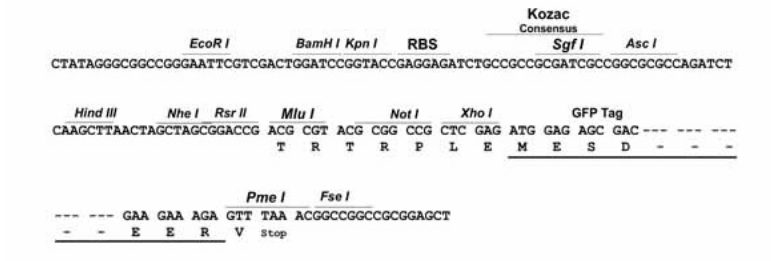
METESGPQTSNQMQTDSLSPSPNPVSPVPLNNPTSAPRYGTVIPNRIFVGGIDFKTNESDLRKFFSQYGS
VKEVKIVNDRAGVSKGYGFVTFETQEDAQKILQEAEKLNYKDKKLNIGPAIRKQQVGIPRSSIMPAAGTM
YLTTSTGYPYTYHNGVAYFHTPEVTSVPPPWPSRSVCSSPVMVAQPIYQQPAYHYQATTQYLPGQWQWSV
PQPSASSAPFLYLQPSEVIYQPVEIAQDGGCVPPPLSLMETSVPEPYSDHGVQATYHQVYAPSAITMPAP
VMQPEPIKTVWSIHY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:





ACCN: NM_197970

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).

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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_197970.3

RefSeq Size: 2804 bp

RefSeq ORF: 888 bp

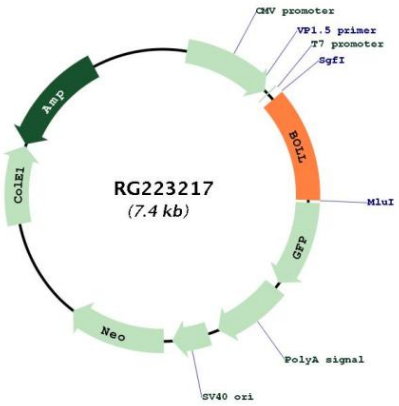
Locus ID: 66037

UniProt ID: Q8N9W6

Cytogenetics: 2q33.1

Gene Summary: This gene belongs to the DAZ gene family required for germ cell development. It encodes an RNA-binding protein which is more similar to Drosophila Boule than to human proteins encoded by genes DAZ (deleted in azoospermia) or DAZL (deleted in azoospermia-like). Loss of this gene function results in the absence of sperm in semen (azoospermia). Histological studies demonstrated that the primary defect is at the meiotic G2/M transition. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG223217

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