

## Product datasheet for **RG236284**

### **BOULE (BOLL) (NM\_001284358) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** BOULE (BOLL) (NM\_001284358) 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:** >RG236284 representing NM\_001284358.  
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACAGAGCTGGAGTATCCAAAGGGTTCTAGTATAATGCCAGCAGCTGGAACAATGTATCTAACAAC
TCAACTGGATATCCTTATACTTACCATAATGGTGTGCTTATTTTCATACTCCAGAGGTAACCTCGGTC
CCACCGCCTTGGCCTTACGTTCTGTATGTAGCTCCCCTGTGATGGTAGCTCAGCCATTATCAGCAA
CCTGCATACCTACCAGGCCACCACAGTATTTACCAGGACAGTGGCAGTGGAGTGTTCTCAGCCT
TCTGCCTCTTCTGCTCCATTCTTATACCTGCAACCTTCTGAGGTTATTTATCAACCAGTGGAAATGCA
CAGGATGGTGGATGTGTTCTCCTCCACTGTCTCTGATGGAAACTCAGTCCAGAGCCTTATTCTGAT
CATGGAGTTCAAGCAACATATCACCAGGTTTATGCTCCAAGTGCCATCACTATGCCTGCGCCTGTGATG
CAGCCTGAGCCAATTAACAGTGTGGAGCATTATTAT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG236284  
Blue=ORF Red=Cloning site Green=Tag(s)

```
MTELEYPKGSSIMPAAGTMYLTTSTGYPTYHNGVAYFHTPEVTSVPPPWPSRSVCSPPMVAQPIYQQ
PAYHYQATTQYLPQWQWSVPQPSASSAPFLYLQPSSEVIYQPVIEAQDGGCVPPPLSLMETSVPPEPYS
HGVSQATYHQVYAPSAITMPAPVMQPEPIKTVWSIHY
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLSRDGGYSSVVDSSHMFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:** SgfI-MluI



**Cloning Scheme:**


**ACCN:** NM\_001284358

**ORF Size:** 522 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).

**RefSeq:** [NM\\_001284358.1](#), [NP\\_001271287.1](#)

**RefSeq Size:** 2742 bp

**RefSeq ORF:** 525 bp

**Locus ID:** 66037

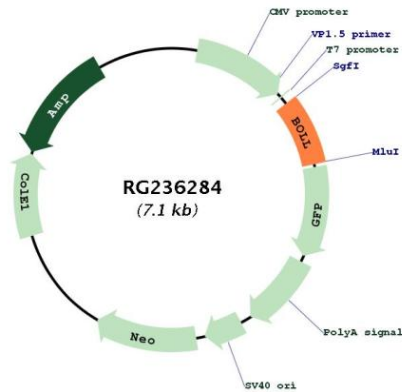
**UniProt ID:** [Q8N9W6](#)

**Cytogenetics:** 2q33.1

**MW:** 19.7 kDa

**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 RG236284