

Product datasheet for **RG227553**

DAZAP2 (NM_001136266) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DAZAP2 (NM_001136266) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: DAZAP2
Synonyms: PRTB
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG227553 representing NM_001136266
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAACAGCAAAGGTCAATATCCAACACAGCCAACCTACCCTGTGCAGCCTCCTGGGAATCCAGTATACC
 CTCAGACCTTGCATCTTCTCAGGCTCCACCCTATACCGATGCTCCACCTGCCTACTCAGAGCTCTATCG
 TCCGAGCTTTGTGCACCCAGGGCTGCCACAGTCCCCACCATGTCAGCCGATTTCTGGAGCCTCTCTG
 TATCTTCCATGGCCAGTCTGTGGCTGTTGGCCTTTAGGTTCCACAATCCCCATGGCTTATTATCCAG
 TCGGTCCCATCTATCCACCTGCCTCCACCTCCTGGATGCCCTCCCAATGCTGCTCAGTTGCAGTCATGC
 AGGGAGCCAACGTCCTCGTAACCTCAGCGGAAGGGGAATTCCTTATGGGTGGTTCAGATGGTGGCTACAC
 CATCTGGTGAGGAACCAAGGCCACCTCTGTGCCGGAAAGACATCACATACCTTCAGCACTTCTCAAAAT
 GTAACCTGCTTTAGTCATATTAACCTGAAGTTGCAGTTTAGACACATGTTGTTGGGGTGTCTTTCTGGTGC
 CCAAATTTTCAGGCACCTTTCAAATTTAATAAGGAACCATGTAATGGTAGCAGTACCTCCC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG227553 representing NM_001136266
 Red=Cloning site Green=Tags(s)

MNSKGQYPTQPTYVPVQPPGNPVYPQTLHLPQAPPYTDAPPAYSELYRPSFVHPGAATVPTMSAAFPGASL
 YLPMAQSVAVGPLGSTIPMAYYPVGPPIYPPASTSWMPSQCCSACSHAGSQRPRNSAEGELLHGWFRRWLH
 HLVRNQHL CAGKDITYLQHFSQCNCFSHINLKLQFRHMLLGCLSGAQTFRHFSNLIRNHVMVAVPP

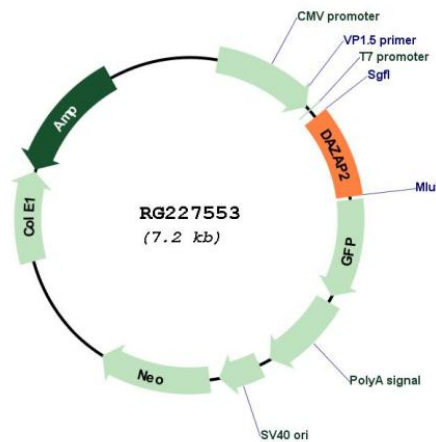
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001136266

ORF Size: 621 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_001136266.2](#)

RefSeq Size: 2105 bp

RefSeq ORF: 624 bp

Locus ID: 9802

UniProt ID: [Q15038](#)

Cytogenetics: 12q13.13

Gene Summary: This gene encodes a proline-rich protein which interacts with the deleted in azoospermia (DAZ) and the deleted in azoospermia-like gene through the DAZ-like repeats. This protein also interacts with the transforming growth factor-beta signaling molecule SARA (Smad anchor for receptor activation), eukaryotic initiation factor 4G, and an E3 ubiquitinase that regulates its stability in splicing factor containing nuclear speckles. The encoded protein may function in various biological and pathological processes including spermatogenesis, cell signaling and transcription regulation, formation of stress granules during translation arrest, RNA splicing, and pathogenesis of multiple myeloma. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2008]