

Product datasheet for RC227401

TOPAZ1 (NM_001145030) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TOPAZ1 (NM_001145030) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TOPAZ1
Synonyms:	C3orf77
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC227401 representing NM_001145030 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGACGACCTCCACCCTGGGCCACGACGGCCTCAGGGCCTGAAGGCAATGTGCGAACTGCAGA
AGCGGCAGGCGCCAGGGCCAGGCGCGGGGAGGCTGTGGCCCTGAGGCCGGGGGTGCCGGAAAAATAA
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CAATGTTAATAAGGAACAGGTTTATAGTTTGAACATTGTTCTGCCCTGAAATGGTTAAAAGAGAATATG
AAGTGGCTGGAAGGTTTGGCTTTTTCAGTAACCAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC227401 representing NM_001145030
Red=Cloning site Green=Tags(s)

MRRPPPLGPTTASGPEGNVRNLQKRQAPGPGAAGGCGPEAGGCRENKQKRRMVARATPGRGEVESDKSVA
ASGAGKAARRQVEGRRGPVSPDSSDPRGLEAAKEAELPLQTERHTKEKRKYTEASSDDPQPLDLVRKE
SLTSSSEFQTVECLQSLGKESIIEGIKRRIRNKKLKSLENPPLKITENEATQNIKVEFQDEL YKNTPKYS
CNILSPEVENNSVLKLRDCNCFPHSKGCNDENLPHYKPDGGCMHVAENFSKKNLRSLAEKSDTNSIPQL
LQTEENVMGVKNLLPEESDL YQSKTNGLLSCLQHEKNKYSIEESSVGRKPRKRMKLSEKADETVTEMNFS
NEYNKSELMQENQMIADGKEAETKSPLNVLKRVSHNTVSLMDHLLSVPETVEKET SSEHHVNAV FQKTI
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KRTWPYSCARISAWCWKASLPESYFLRGSQESCRQVDVPKHQTNQTHLTDKLLQLSSLTETNTESS
SKEKLDNSNCLSSVSAVEPTLMVIKEPIKDDKIKSEELSRGSEVISNTTEDTQLTSETQSLTGNNK
KARGNLTKLNL TATSKDQGEANNSAGKTIHRKACIAQQT FIVPDLVKILNTGRLTNFKIPLLKNKSEKRK
EVNAKSSEREAYSPELELDNL SGADVRQNRSKENVSMMLGPQTL SIRNSVTPVQASSDSFYNNKSYSIS
PSFTKQGNNSKPSNHVSEPGNIVSNKEVASL TVENNAFSCDPGYVEKSPSFCNEQETFRPVSSEVRGRK
ITKNFSEVGFDPILKAYEDDVLIDVIQDDPDLFGVSNEGELSF TSEVPKISQEPNVAGEHQSTDSKYME
TPVKKEPSDDLREL PVLDCGWIKPDICASNSAESEIKRDPKDVNTSLGEVANETSENETLGDFSEQIKGS
DLDEKHRFTDKVITKEEKENIYEVCKSKDSRNADFMVGECQFAVPVPKPLCLLVPPLNLSGRQEDTILNT
WMNDFRFLGKHSVLKLQNPETCEIFKREKNVGVFQKSLGLMIPYKYCKFHFNTRLGCERPLCKFAHVPEQ
GDEKVCMDVFKKYININELCLLQRAVNI FMEYRKFPPGVYFDLQVLNDLLNSLLKHCLLKEVFQIVNLS
IMVKMLPSLKILLNIFEYVATMKLRNAV PALIDIFCKLVEAGMVLDPHEFNIVKLLYQVQASKQEITAV
LEMKSRLQMRFKKNWKC DLDSALNKLEHCKEKGDWTKLGLYINVMGCEKFAFDQTFCACIAETLTKN
YEDERPDIPFCEFAETVSKDPQNSKVDKGV LGRIGISAMYFYHKLLQWSKGRKVLEKLYELKIHFTSLKG
LIGPEKLASRCQIVNVAEIFLKSGLDGAIWVMRESEWIINTPLWPCDRLDVLRNHNLLCTIAHEILAK
SLYRQTFEVLQNLPGFQNSQETVEVSQYSLLFNKLLGSCIESSSLGMSSSVAEFMISKSIPIDFSFLRRL
ITSLGRSRLWLKARAHYKSALSLGCYPPLEGNL YRKL LIPSYLSEIEMLLAIEIFMVSNASSIQSPGTS
TQILQIVLKRCEDNQRSNDYQAAVERL IMAARISDPKLFVKHMTVNVNKEQVYSLEHCSALKWLKENM
KWAGKVWLF SNH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8038_a02.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

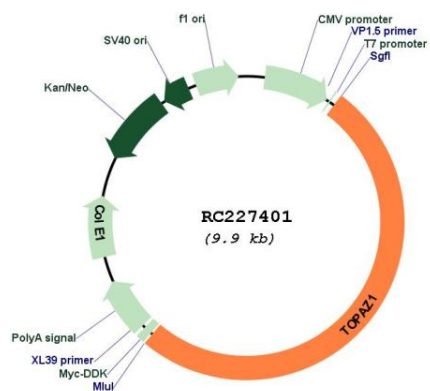


* The last codon before the Stop codon of the ORF

ACCN: NM_001145030
 ORF Size: 5076 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_001145030.2
RefSeq Size:	5351 bp
RefSeq ORF:	5079 bp
Locus ID:	375337
UniProt ID:	Q8N9V7
Cytogenetics:	3p21.31
MW:	190.93 kDa
Gene Summary:	Important for normal spermatogenesis and male fertility. Specifically required for progression to the post-meiotic stages of spermatocyte development. Seems to be necessary for normal expression levels of a number of testis-expressed gene transcripts, although its role in this process is unclear.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC227401