

Product datasheet for **RG228629**

PROB1 (NM_001161546) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PROB1 (NM_001161546) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PROB1
Synonyms:	C5orf65
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG228629 representing NM_001161546 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGCTGACCGCGCTCGCCCCGCCAGCCCTGCCTGGGATCCCGAGGCAGCTGCCACGGCCCCGCGCGGC
GCCAGGACTCTCCGGTTCGTCAGGCTCCTACTACACGGCTCCAGGTTCTCCGAGCCCCCGACGTTGG
GCCGGACGCGAAAGGCCAGCGAATTGGCCCTGGGTGGCTCCTGGGCGGGGGCGGGCGCGCAGCCTCGC
CTGTCCGTCAGCGCCAGAATAGCCGCCAGCGGCACGGGCCCGGCTCGGGTTTCCCGCAGGCCAGGTT
CCGGCCACGGCCACCCAGCCAGCTGCGCACGCTGCCGTGGGGGAGATGGAAGTCATCTTCGCGCT
CGGACCCCTGTTCCGCTGCTCCGGCGCAGACGATCGCGAGGCGCAACAACAGTTACGGAGCCGGCCTTC
ATCAGCCCTTGGCGCCGGGGCCAGCGTCTCCCGCCGCGTCCCACGCCAGTCCCAGGTCCCGATGGTG
GCTCCCGCTGGGCCACCTACCTAGAGCTGCGGCCCCGTGGGCCAAGTCTGCCGCCCCAGCGCAGTTCGA
GTGTGTGGAGGTGGCTCTGGAGGAGGGCGCCGCGCCGCCAGGCCCGGACAGTGCCCAAGCGTCAGATC
GAGCTGCGCCCCCGCCCCAGAGTCCCCAAGGGCGGCCGCGCGCCGCGCCCCGGCTGCTCCTGCGCA
CCGTTCCCTGGACGAGTCGCTGGGCCCCCTGCAGGCCCGCGGGCTTCGTGCAGACGGCGTTGGCCAG
AAAAGTGAAGCCCCGAGGCCCGGCCCGAGCAGCGCCACCTTCGGGTCCACGGGGCGGTGGAACCTGAG
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ACTACTCGAGGGTGAGTAGCCATTGTTCCCTGAAGCCTCCTCCGAGTGGGAAATCAAATCCTGCCG
TCGAGGAACTGTCAGCAGGAGAAGCCCTCCCTCCGATCCTTCCAGTGGAAATCAGTGTGTTGCTGG
GAAAGGAGCCCGTCCCTCGAAGCCCTCCCTGTGGGAGATTCCACATTCGGCAGTCGCGATGCGGTG



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GAGCCACGTAGCAGCCCGTCCCCGCCGGCCTTCTCCCGTGGGAGGCTCCAGATCGTCCTATTGGAAGCT
 GGGGCCCATCTCCCAAGAGACATGGGATCCCATGGGGCCGGGCTCATCGATAGCATTTACTCAGGAAGC
 TCAGATGGGTAACTCAGGAGGAGTTGGCACCCTACACCGTCCGACCCGGCACTCCAGAACCAACA
 GAGATGCAGAGTCCATCCACGCGGGAATTTAGATCTTGCTTTGGAGGGAGTCAGCAGTCCCCAGAGG
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 GAGCGGCCCTACTACTTTGTGGAGGCGCGCGGACGCTCGGCTGCGGGTGCTCTTCGACCCTGAGAGT
 GGGCAGTACGTGGAGGTGTTGCTGCCGCCCTCGTCTCCCGGGCGCCCCACCGCTCTACACCCCTCTGG
 CCCTGGGGCTCGGCCTTACCCGCCCGCTATGGGCTATACCCAGCCTCTCTGCCACCGTCCCCGGG
 CCCGACGGCCCTCGGACGCCCCAGCTACCCTGGGTCTCTGAGGAGGGCCCTGGACGGGACCTACTAC
 CTGCCGGTGAGCGGGACCCCCAACCCCGCACCTCTCTGCTCTGTGCGCGCCCTCCAGCTCAGGTC
 CCACCCAGCCCGCAAGGTTTCATTGTTCCCGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG228629 representing NM_001161546

Red=Cloning site Green=Tags(s)

MLTALAPPALPGIPRQLPTAPARRQDSSGSSGSYYTAPGSPEPPDVGPDAKGPANWPWVAPGRGAGAQPR
 LSVSAQNSRQRHGPSSGFRGPGSGPRPPQQLRTLPSGEMEVIFGVGPLFGCSGADDREAQQQTTEPAF
 ISPLPPGPASPAAVPRQSQVPDGGSRWATYLELRPRGSPAAPAQFECVEVALEGAAPARPTVPKRQI
 ELRPRPQSPRAAGAPRPRLLRLTGSLDESLGPLQAAAGFVQTALARKLSPEAPAPSSATFGSTGRSEPE
 TRETARSTHVLEKAKSRPLRVRDNSAPAKAPRPWPSLRERAIRRDKPAPGTEPLGPVSSSIFLQSEEKI
 QEARKTRFPREAPDRTVQRARSPPFECRIPSEVPSRAVRPRSPSPRQTPNGAVRGPRCPSPQNLSPWDR
 TTRRVSSPLFPEASSEWENQNPAVEETVSRSPSPILSQWNQCVAGERSPSLEAPSLWEIPHSVADAV
 EPRSSPSPPAFFPWEAPDRPIGTWGPSPQETWDPMGPGSSIAFTQEAQNGLTQEELAPPTPSAPGTPEPT
 EMQSPSTREISDLAFGGSQQSPEVAAPPEPPGSHPVGTLDADKCPEVLGPGEAASGRPRMAIPRPRDVRKL
 VKTTYAPGFPAGAQSGPLPAPPADPCGEEGGESKTQEPALGPPAPAHYTSVF IKDFLPVVPHYPPEP
 SFDTVARDASQPNGVLRRAENSTAKPFKRTIIRLPGALALGRRPEVTSRVRARGPGGENRDVEAQLVP
 DGDGRTSPLGGARSSSQSPVGPAGVRSRPGSPQMSPSPGIAPKPKTPPTAPEPAAAVQAPLPREPL
 ALAGRTAPAPRAASAPPTDRSPQSPSQGARRQPGAAPLGVLDPESGRYFVEAPRQPRRLVLDPE
 GQYVEVLLPPSSPGPPHRVYTPALGLGLYPAYGPIPSLSLPPSPGPQALGSPQLPWVSEAGPLDGTYY
 LPVSGTPNPAPPLLLCAPSSSGPTQPGKGSFL

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001161546

ORF Size: 3045 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:

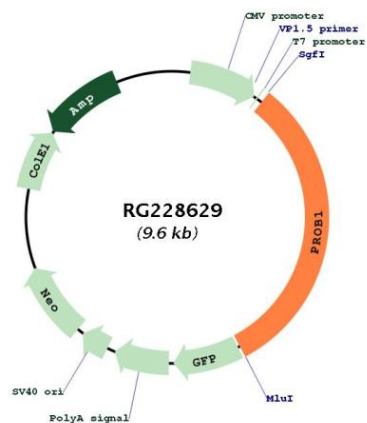
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_001161546.2](#)

RefSeq Size: 3251 bp

RefSeq ORF: 3048 bp
 Locus ID: 389333
 UniProt ID: [E7EW31](#)
 Cytogenetics: 5q31.2

Product images:



Circular map for RG228629