

Product datasheet for **RG211787**

POC5 (NM_001099271) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	POC5
Synonyms:	C5orf37
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG211787 representing NM_001099271
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTCATCAGATGAGGAGAAATACTCACTTCCAGTTGTGCAAAATGACTCCAGTCGAGGCAGTTCTGTCT
 CTTCAATCTTCAGGAAGAAATGAAGAACTGCTTCATTATGCTATAGTGAATATTGAACCTG
 TGCTTCACAGTCATCTCATCTAAGGGAGAATTGGTGCCAGATGTCAGAAATTTCTACAATTCATGATATT
 CTTCAAGTCAAGGAAATACTCTGAAGTAAGAGAACTGCAATAGAAGTTGGAAAAGGATGTGATTTC
 ATATTTCAAGTCATTCAAGACAGATGAGTCATCACCAGTGTTATCGCCAAGGAAGCCTTCTCACCAGT
 CATGGATTTTTTCAGTTCACATCTTTTAGCTGACTTTCCTCACCAGCAACAAATTTAGTCATACAGAT
 GCCCATGAAATACTTGTGAGCGATTTTCTGTTTCTGATGAAAACCTTCAGAAGATGGAAAATGTGCTTG
 ATCTTTGGAGTTCAGGTCTTAAGACAAACATCATATCTGAAGTAAGTAAATGGAGACTTAATTTTATTGA
 CTGGCACCGAATGGAAATGAGAAAAGAGAAAACATGCAGCACATTTAAACAACGTGTAATCAG
 ATCAATGAATTGAAGGAGCTGCAAAAACCTTTGAAATCTCCATTGGGAGAAAAGATGAGGTGATTCTA
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 CGGCCATGTCAGAGCCAGACAGGATGTTTATGAAGTAACTAGCTGACCAGTACTACCAGAGAAGTTTA
 CTGAAGAAAGTCTGGAAGTCTGGCGTTCGTAAGTGAAGCAAGTGAAGATGTGGTAGAAAGAGCTT
 GTCAAGCAAGAGCTGAAGAAAGTTGTATCCAGATTTCCAATGATTATGAAGCCAAAGTTGCTATGTTATC
 TGGAGCTTTGGAAGTGAAGAAAGTGAAGTCAAGAAATGCAACATGAAAAGAGCACTTTGAAGATTCC
 ATGAAAAGCTTTTATGAGGGGTGTATGTCATTAATCTTGAAGCCATGACTATTTTCAAAACAGAA
 ATGATGCAGGGATAGACTCCACAAATAATAAAAGGAAGATGTTGCTGGTGTCAAGGAAAAGAAC
 TTCTGCTCATTGGATCCTCAGCTCCTCCGATGCCCTTACCAGTTACATCACCAGTCTGCCATCCCCA
 CCAGCCGCGCTCGAGGAGCCAGCGGACTGCCGTTCCCTCAGCTGCTTCGATGACTTCTACCAGGGCTG
 CTTCCGCATCTTCTGTTACGTTCTGTTTCTGCTCTTGGTGCAGGATCTGCAGTACTGCTGCATCAGA
 AGAAATGTATGTGCAAGAGTTGTAACTCTGCACAACAGAAAGCAGGAAGAACTATTACAGCCCGGATC
 ACAGGAAGATGTGATTTTGTCTCAAAAAATAGAATTAGCAGCAGTTTAGCTATAATGGGAGTTTCTCCTC
 CCATGAGCTCAGTTGTTGTGGAAGAAACATCATCAGTCACAGTGCAAAACATTCTCAAGCAACTGCAGC
 AAAATATCCCCGACCATTATCCTGAAAGTAGTACCTCAGCTTCCAGATCACTTGAACAGATCAGCT
 CACACCAGCTCTCACAAGTTCATTCCATAAAAGTGGTTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG211787 representing NM_001099271
 Red=Cloning site Green=Tags(s)

MSSDEEKYSLPVVQNDSSRGSSVSSNLQEEYEELLHYAIVTPNIEPCASQSSHPKGELVPDVRISTIHDI
 LHSQGNSEVRETAIEVGKGCDFHISHSKTDDESPVLSRPKPSHPVMDFFSSHLLADSSSPATNSSHTD
 AHEILVSDFLVSDENLQKMENVLDLWSSGLKTNIISELKWLNFIDWHRMEMRKEKEKHAHLKQLCNQ
 INELKELQKTFEISIGRKDEVISSLSHAIGKQKEKIELMRTFFHWRIGHVRARQDVYEGKLADQYYQRTL
 LKKVWVWRSVVQKQWKDVVERACQARAEEVCIQISNDYEAKVAMLSGALENAKAEIQRMQHEKEHFEDS
 MKKAFMRGVCALNLEAMTIFQNRNDAGIDSTNNKKEEYGPVQGEHSAHLDPSPMPPLPVTSPLLPSP
 PAAVGGASATAVPSAASMTSTRAASASSVHPVSALGAGSAATAASEEMYVPRVTSQAQKAGRTITARI
 TGRCDFASKNRISSSLAIMGVSPPMSSVVVEKHHPVTVQTIQATAAKYPRTIHPESSTSASRSLGTRSA
 HTQSLTSVHSIKVVD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001099271

ORF Size: 1725 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.

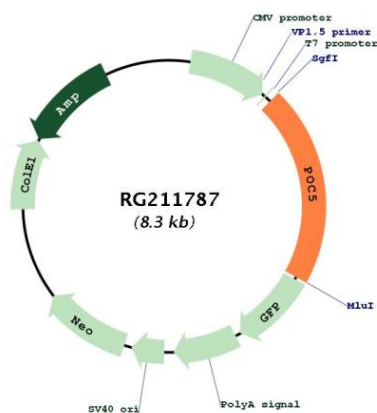
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001099271.2](#)

RefSeq Size: 2170 bp

RefSeq ORF:	1728 bp
Locus ID:	134359
UniProt ID:	Q8NA72
Cytogenetics:	5q13.3
Gene Summary:	Essential for the assembly of the distal half of centrioles, required for centriole elongation. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG211787