

## Product datasheet for **RC222956**

### PTGFRN (NM\_020440) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PTGFRN (NM_020440) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PTGFRN
Synonyms:	CD9P-1; CD315; EWI-F; FPRP; SMAP-6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RC222956 representing NM\_020440  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGCGCCTGGCCTCGAGGCCGTGCTGCTGGCGCTCTGTGCTTGGCTCTTTGCCGAGGGCGTGTGG  
 TGAGAGTCCCCACAGCGACCCTGGTTCGAGTGGTGGGCACTGAGCTGGTATCCCCGCAACGTCAGTGA  
 CTATGATGGCCCCAGCGAGCAAACTTTGACTGGAGCTTCTCATCTTTGGGGAGCAGCTTTGTGGAGCTT  
 GCAAGCACCTGGGAGGTGGGTTCCAGCCAGCTGTACCAGGAGCGGCTGCAGAGGGGCGAGATCCTGT  
 TAAGGCGGACTGCCAACGACGCCGTGGAGCTCCACATAAAGAACGTCCAGCCTTCAGACCAAGGCCACTA  
 CAAATGTTCAACCCAGCACAGATGCCACTGTCCAGGAACTATGAGGACACAGTGCAGGTTAAAGTG  
 CTGGCCGACTCCCTGCACGTGGGCCAGCGCGGCCCGCCGAGCCTGAGCCTGCGGGAGGGGAGC  
 CCTTCGAGCTGCGCTGCACTGCCCTCCGCTCGCCGCTGCACACGCACCTGGCGCTGTGTGGGAGT  
 GCACCGCGGCCCGCCAGGCGGAGCGTCTCGCCCTGACCCAGGAGGCGAGTTCCACCCGGCCCTGGGG  
 TACGAGCAGCGCTACCACAGTGGGGACGTGCGCCTCGACACCGTGGGCAGCGACGCTACCGCCTCTCAG  
 TGTCGGGCTCTGTCTGCCGACCAGGGCTCTACAGGTGTATCGTCAGCGAGTGGATCGCCGAGCAGGG  
 CAACTGGCAGGAAATCCAAGAAAAGGCCGTGGAAGTTGCCACCGTGGTATCCAGCCATCAGTTCTGCGA  
 GCAGCTGTGCCAAGAATGTGTCTGTGGCTGAAGGAAAGGAACTGGACCTGACCTGTAACATCACAACAG  
 ACCGAGCCGATGACGTCCGGCCCGAGGTGACGTGGTCTTCAGCAGGATGCTGACAGCACCTACCTGG  
 CTCCCGCTGTTGGCGCGCTTGACCGTATTCCCTGGTGACAGCTCGCCTCATGTTGCTTTGAGTCAT  
 GTGGATGCACGCTCTACCATTTACTGGTTCGGGATGTTAGCAAAGAAACTCTGGCTACTATTACTGCC  
 ACGTGTCCCTGTGGGCACCCGGACACAACAGGAGCTGGCACAAGTGGCAGAGGCCGTGTCTTCCCAGC  
 TGGTGTGGGTGTGACCTGGCTAGAACCAGACTACCAGGTGTACCTGAATGCTTCCAAGTCCCGGGTTT  
 GCGGATGACCCACAGAGCTGGCATGCCGGTGGTGGACACGAAGAGTGGGGAGGCGAATGTCCGATTCA  
 CGGTTTCTGGTACTACAGGATGAACCGCGCAGCGACAATGTGGTGACCAGCGAGCTGCTTGCAGTCAT  
 GGACGGGGACTGGACGCTAAAATATGGAGAGAGGAGCAAGCAGCGGGCCAGGATGGAGACTTTATTTTT  
 TCTAAGGAACATACAGACAGTTCAATTTCCGGATCCAAAGGACTACAGAGGAAGACAGAGGCAATTATT  
 ACTGTGTTGTGTGCTGCCTGGACCAACAGCGGAACAACAGCTGGTGAAAAGCAAGGATGTCTTCCAA  
 GCCTGTTAACATATTTGGGCATTAGAAGATCCGTGCTTGTGGTGAAGGCGAGGACGCAAAAGCCTTTC  
 TTTGCTGCCGAAATACATTTGAGATGACTTGCAAAGTATCTTCCAAGAATATTAAGTCGCCACGCTACT  
 CTGTTCTCATCATGGCTGAGAAGCCTGTGCGGACCTCTCCAGTCCCAATGAAACGAAGTACATCATCTC  
 TCTGGACCAGGATTCTGTGGTGAAGCTGGAGAATTGGACAGATGCATCACGGGTGGATGGCGTTGTTTTA  
 GAAAAAGTGCAGGAGGATGAGTTCGGCTATCGAATGTACCAGACTCAGGTCTCAGACGCAGGGCTGTACC  
 GCTGCATGGTGACAGCCTGGTCTCCTGTGAGGGCAGCCTTTGGCGAGAAGCAGCAACCAGTCTCTCCAA  
 TCCTATTGAGATAGACTTCCAAACCTCAGGTCCTATATTTAATGCTTCTGTGCATTACAGACACCATCA  
 GTAATTCGGGGAGATCTGATCAAATTGTTCTGTATCATCACTGTGAGGGAGCAGCACTGGATCCAGATG  
 ACATGGCCTTTGATGTCTGCTGGTTTGGCGTCACTCTTTGGCCTGGACAAGGCTCCTGTGCTCCTGTC  
 TTCCCTGGATCGGAAGGGCATCGTGACCACCTCCCGAGGGACTGGAAGAGCGACCTCAGCCTGGAGCGC  
 GTGAGTGTGCTGGAATTTGCTGCAAGTGCATGGCTCCGAGGACCAGGACTTTGGCAACTACTACTGTT  
 CCGTGACTCCATGGTGAAGTCACCAACAGGTTCTGGCAGAAGGAGGCAGAGATCCACTCCAAGCCGT  
 TTTTATAACTGTGAAGATGGATGTGCTGAACGCCTTCAAGTATCCCTTGCTGATCGGCGTCCGTCTGTCC  
 ACGGTCATCGGGCTCCTGTCTCTCATCGGGTACTGCAGCTCCACTGGTGTGTAAGAAGGAGGTTCC  
 AGGAGACCGGCGAGCGCCGAGGCTCATGTGATGGAGATGGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC222956 representing NM\_020440  
 Red=Cloning site Green=Tags(s)

MGRLASRPLLLALLSLALCRGRVVRPTATLVRVVGTELVIPCNVSDYDGPSEQNFDWSFSSLGSSSFVEL  
 ASTWEVGFPAQLYQERLQRGEILLRRTANDAVELHIKNVQPSDQGHYKCTPSTDATVQGNEDTVQVKV  
 LADSLHVGPSARPPPSLSLREGEPELRECTAASASPLHHLALLWEVHRGPARRSVLALTHEGRFHPGLG  
 YEQRYSKGDVRLDTVGS DAYRLSVSRALSADQGSYRCIVSEWIAEQGNWQEIQEKAVEVATVVIQPSVLR  
 AAVPKNVSVAEQKELDLTCNITDRADDVRPEVTWSFSRMPDSTLPGSRVLARLDRDSL VHSSPHVALSH  
 VDARSYHLLVRDVSKENSGYYYCHVSLWAPGHNRSHKVAEAVSSPAGVGVTWLEPDYQVYLNASKVPGF  
 ADDPTELACRVVDTKSGEANVRFTVSWYRMRNRSDNVVTSELLAVMDGDWTLKYGERSKQRAQDGFIF  
 SKEHTDTFNRIQRTTEEDRGNYYCVSAWTKQRNNSWVSKDVF SKPVNIFWALEDSVLVVKARQPKPF  
 FAAGNTFEMTCKVSSKNIKSPRYSVLIMAEKPVGDLSSPNETKYIISLDQDSVVKLENWTDASRVGTVL  
 EKVQDEFYRMYQTQVSDAGLYRCMVTAWSPVRGSLWREAAATLSNP IEIFQTSGPIFNASVHSDTPS  
 VIRGDLIKLFCIITVEGAALDPDDMAFDVSWFAVHSFGLDKAPVLLSSDRKGIVTTSRRDWKSDLSLER  
 VSVLEFLQVHGS EDDQDFGNYYCSVTPWVKSP TGSWQKEAEIHSKPVFITVKMDVLNAFKYPLLIGVGLS  
 TVIGLLSCLIGYCSSHWCKKEVQETRERRRLMSMEMD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mk8103\\_c05.zip](https://cdn.origene.com/chromatograms/mk8103_c05.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:

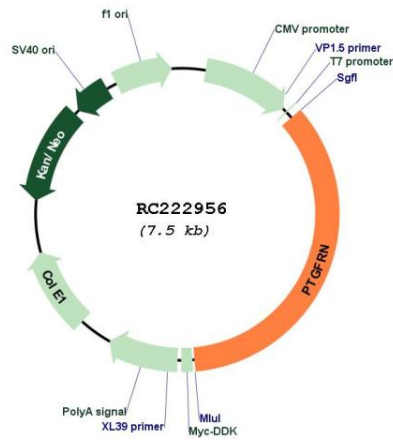
Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

<b>ACCN:</b>	NM_020440
<b>ORF Size:</b>	2637 bp
<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_020440.2</a></u> , <u><a href="#">NP_065173.2</a></u>
<b>RefSeq Size:</b>	6160 bp
<b>RefSeq ORF:</b>	2640 bp
<b>Locus ID:</b>	5738
<b>UniProt ID:</b>	<u><a href="#">Q9P2B2</a></u>
<b>Cytogenetics:</b>	1p13.1
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	98.6 kDa
<b>Gene Summary:</b>	Inhibits the binding of prostaglandin F2-alpha (PGF2-alpha) to its specific FP receptor, by decreasing the receptor number rather than the affinity constant. Functional coupling with the prostaglandin F2-alpha receptor seems to occur (By similarity). In myoblasts, associates with tetraspanins CD9 and CD81 to prevent myotube fusion during muscle regeneration (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC222956