

Product datasheet for **RG215801**

CYPIVF8 (CYP4F8) (NM_007253) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYPIVF8 (CYP4F8) (NM_007253) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CYP4F8
Synonyms:	CPF8; CYPIVF8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG215801 representing NM_007253
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGTGCTTGCAGGATGTCGCTGCTGAGCCTGTCTTGGCTGGGCCTCAGGCCGGTGGCAGCATCCCCGT
 GGCTTCTCCTGCTGGTGGTGGGGCCTCCTGGCTCCTGGCCGCATCCTGGCCTGGACCTATGCCTTCTA
 TCAACACGGCCGCCCTCCGGTGTTCGCCGAGCCCGAAACAGAAGTGGTCTTGGGTACCTGGGC
 CTGGTCACTCCCACAGAGGAGGGCTTGAGGGTCTGACCCAGCTGGTGGCCACCTACCCCGAGGCTTTG
 TGAGGTGGTTGGGCCCATCACTCCCATCATCACTTGTGCCACCCTGACATCGTCCGATCTGTCATCAA
 TACCTCAGATGCCATTACAGACAAGGACATAGTCTTCTACAAGACCCTGAAGCCCTGGCTGGGGGATGGG
 CTCTTGTAAGTGTGGTACAAGTGGAGACACCACCGTCGTTGCTGACGCCTGCCTCCATTTCAACA
 TCCTGAAGCCCTATATAAAGATTTTCAGCAAGAGTGCAAACATCATGCATGCCAAGTGGCAACGCCTGGC
 CATGGAGGGCAGCACCTGTCTGGATGTGTTTGGACACATCAGCCTTATGACCCTGGACAGTCTGCAGAAA
 TGATCTTTAGCTTTGACAGCAATTGTCAGGAGAAGCCAGTGAATATATTACTGCGATCATGGAGCTCA
 GTGCCCTGTAGTGAAACGGAATAACCAGTTCTCCGGTACAAGGACTTCTGTACTTCCCTCACTCCCTG
 TGGACGGCGCTTCCACAGGGCCTGCAGACTGGTGCACGACTTACAGATGCCGTATCCAGGAGCGGCGC
 CGCACCCTCACTAGCCAGGGTGTGATGACTTCTCCAAGCCAAGGCCAAGTCCAAGACTTTGGACTTTA
 TTGATGTGCTCCTGCTGAGCGAGGATAAAAAATGGTAAAGAGTTGTGAGATGAGGACATAAGAGCAGAAGC
 TGACACTTTCATGTTGGAGGCCATGACACCACGGCCAGTGGCCTCTCCTGGTCTTGTACAACCTCGCG
 AGGCACCCAGAATACCAAGAACGCTGCCGGCAGGAGGTGCAAGAGCTTCTGAAGGACCGTGGCCTAAAG
 AGATTGAATGGGACGACTGGCCAGTTGCCCTCCTGACCATGTGCTGAAGGAGAGCCTGGCGTTGCA
 TCCCCAATCCCTACATTGCGCCGCGGCTGCACCCAGGACGTGGTGTCCAGACAGCCGAGTATCCCC
 AAAGGGAATGTCTGTAACATCAACATCTTCGCAATCCATCACAACCCCTCAGTCTGGCCAGACCCTGAGG
 TCTATGACCCCTTCGCTTCGACCCGAAAACGCCAGAAGAGGTACCTATGGCTTTTATTCTTTCTC
 GGCGGGGCCAGGAACTGCATCGGGCAGAAGTTCGCGATGGCAGAGATGAAGGTGGTCTGGCGCTCACG
 CTGCTGCGCTCCGCATCCTGCCGACCACAGGGAGCCACGCAGGACGCCGGAGATTGTTTTGCGTGGC
 AGGACGGACTTTGGCTGCGAGTAGAACCCCTGGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG215801 representing NM_007253
 Red=Cloning site Green=Tags(s)

MGACRMSLLSLSWLGLRPVAASPWLLLLVVGASWLLARILAWTYAFYHNGRRRLRCFPQPRKQNWFLGHLG
 LVTPTEEGLRVLTQLVATYPQGFVRWLGPIITPIINLCHPDIVRSVINTSDAITDKDIVFYKTLKPWLDG
 LLLSVGDKWRHRRLLTPAFHFNLIKPYIKIFSKSANIMHAKWQRLAMEGSTCLDVFEHISLMTLDSLQK
 CIFSFSNCQEKPSEYITAIMELSALVVKRNNQFFRYKDFLYFLTPCGRRFHRACRLVHDFDVAIQERR
 RTLTSQGVDDFLQAKAKSKTLDFIDVLLLSEDKNGKELSDIEDIRAEADTFMFGGHDTTASGLSWVLYNLA
 RHPEYQERCQEVQELLKDREPKEIEWDDLAQLPFLTMCLKESLRLHPPIPTFARGCTQDVVLPDSRVIP
 KGNVNCNINIFAIHHNPSVWPDPEVYDPPFRFDPENAKRSPMAFIPFSAGPRNCIGQKFAMAEMKVVLLALT
 LLRFRIIPDHREPRRTPEIVLRAEDGLWLRVEPLG

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_007253
ORF Size:	1560 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:	<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_007253.2 , NP_009184.1
RefSeq Size:	1847 bp
RefSeq ORF:	1563 bp
Locus ID:	11283
UniProt ID:	P98187
Cytogenetics:	19p13.12
Protein Families:	Druggable Genome, P450, Transmembrane
Gene Summary:	This gene, CYP4F8, encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum and functions as a 19-hydroxylase of prostaglandins in seminal vesicles. This gene is part of a cluster of cytochrome P450 genes on chromosome 19. Another member of this family, CYP4F3, is approximately 18 kb away. [provided by RefSeq, Jul 2008]