

# Product datasheet for RG235566

### PDE6D (NM\_001291018) Human Tagged ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

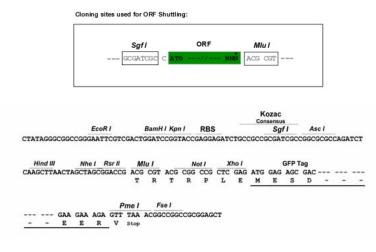
9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:Expression PlasmidsProduct Name:PDE6D (NM_001291018) Human Tagged ORF CloneTag:TurboGFPSymbol:PDE6DSymonyms:JBTS22; PDEDMammalian Cell Selection:NeomycinVector:pCMV6-AC-GFP (PS100010)E. coli Selection:Ampicillin (100 ug/mL)ORF Nucleotide Sequence:SRG235566 representing NM_001291018. Blue=ORF Red=Cloning site Green=Tag(s)GCTGGTTAGTGAACCGTCAGAATTTGTAATAGCACTCACT		
Tag:TurboGFPSymbol:PDE6DSynonyms:JBTS22; PDEDMammalian CellNeomycinSelection:PCMV6-AC-GFP (PS100010)E. coli Selection:Ampicillin (100 ug/mL)ORF Nucleotide>RG235566 representing NM_001291018.Blue=ORF Red=Cloning site Green=Tag(s)GCTCGTTTAGTGAACCGTCAGGAATTTGTATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAAGATCTGCCGCAGGGAATCCGTCAGAACTAACT	Product Type:	Expression Plasmids
Symbol:PDE6DSymoyms:JBTS22; PDEDMammalian CellNeomycinSelection:pCMV6-AC-GFP (PS100010)E. coli Selection:pCMV6-AC-GFP (PS100010)E. coli Selection:Ampicillin (100 ug/mL)ORF Nucleotide Sequence:>RG235566 representing NM_001291018. Blue=ORF Red=Cloning site Green=Tag(s)GCTCGTTTAGTGAACCGTCAGGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTCCTGGCAAGGAACATCAAATTGGATGAACCTTCGG GATCCGTGACCAAGGAACATCTCTGCGCCCGCGATCCCCC ATGTCAGCCAAGGAACATCTCTGCGAAGGAACATCAGAAGACCTGTCGTGGAGCATGAA GCCCGTGTTCCCAAGAAAATTCCTCAAGGACAAGAACACGAAGAACCTGTCGTGGAGCATGAA GCCCGTGTCCCAAGAAAATTCCTCAAGGCAAGGAACACGAAGAACTTAATTTTTTTT	Product Name:	PDE6D (NM_001291018) Human Tagged ORF Clone
Synonyms:JBTS22; PDEDMammalian CellNeomycinSelection:pCMV6-AC-GFP (PS100010)E. coli Selection:Ampicillin (100 ug/mL)ORF Nucleotide>RG235566 representing NM_001291018. Blue=0RF Red=Cloning site Green=Tag(s)GCTCGTTTAGTGAACCGTCAGGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCAGGAGATCGCCGCGCCAGGGAATCCTGGCCGCGCAGGAACTCGTCGGCCAGGAACCTTAGTGCGGCGGCAGGGACCTGGCC ATGTCAGCCAAGGAACAGGAAGAACAGGAAGAGCACGGGCAAGGAACCGGCAAGGAACCGGGCAAGGAACCGGGCAAGGAACCGGAACGGAACAGAAAATTCCTCAAGTCCTAAGTCTGTCCTGCCCTGGTGGGAGCAGCAGGAACAGAAACGCAAGGAACGGAACGGAACAGAAACGGAACGGCAAGGAACGGAACGGAACAGAAAATTCCTCAAGTCTCAAGGGCAATTCGTCGTCGTCGTCGTGGGGGAGGCATGAA CCCAATGGAAAAATTCCGCCTGGCGAAGGAACAGAAACGGCAAGTCACTCAAGGGCAATGCCTAGAAGGGGAACGTTA TCCA ACGCCTACGCGGGCCGCTCGAG - GFP Tag - GTTTAAACProtein Sequence:>Peptide sequence encoded by RG235566 Blue=0RF Red=Cloning site Green=Tag(s)MSAKDERAREILRGFKLNWNNLRDAETGKILWQGTEDLSVPGVEHEARVPKKILKCKAVSRELNFSSTE QMEKFRLEGKVYFKQCLEVGTLS TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA FRVEEDHSNTELGIVEYQHAFKTPDADAGEERV	Tag:	TurboGFP
Mammalian Cell Selection:NeomycinVector:pCMV6-AC-GFP (PS100010)E. coli Selection:Ampicillin (100 ug/mL)ORF Nucleotide Sequence:>RG235566 representing NM_001291018. Blue=ORF Red=Cloning site Green=Tag(s)GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCCGCGATCGCC ATGTCAGCCAAGGACGAGCGAGCCAGGGAGATCCTGAGGGGCTTCAAACTAAATTGGATGAACCTTCGG GATGCTGAGACGAGGGAAGATACTCTGAAGGGAACAAAATGCTCAAGTAAATTGGATGAACCTTCGG GATGCTGAGACAGGGAAGATACTCTGAGGGGCATGCCTGCTGGTCGCCTGGTGGGAGCATGAA CCAATGGAAAAATTCCCCAAGGAACAAAAGCTTACTTCCAAGGGCAATGCCTAGGAAGTGCAAGGAACGAAC	Symbol:	PDE6D
Selection: PCMV6-AC-GFP (PS100010)   E. coli Selection: Ampicillin (100 ug/mL)   ORF Nucleotide >RG235566 representing NM_001291018.   Blue=ORF Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG   GATCCGGTACCGAGAGAGGAGGCCAGGGAGATCCTGCGCGCATCGCC ATGTCAGCCAAGGACGAGCGGGCCAGGGAGATCCTGAGGGGCTTCAAACTAAATTGGATGAACCTTCGG   GATGCTGAGCCAAGGACGAGCGGGCCAGGGAGATCCTGAGGGGCTTCGAAACTAAATTGGATGAACCTTCGG GATGCTGAGACAAGGAAGAGAGATACTCTGGCAAGGAAGCAGTGCTCTGAGACACTAAATTGGAAGACCTGGGGACGGTA   CACAGCGTACCGGGCCGCCCGCG ATGTCAGCCAAGGAACAGGAAGATACTCTGAGCAAGCAGAGAGCACTGCTCGAGAACTTAATTTTTCTTCGACAGAA   GCCCGTGTTCCCAAGAAAATCCCTCAAGCAAGAGCAGGCAG	Synonyms:	JBTS22; PDED
E. coli Selection: Ampicillin (100 ug/mL)   ORF Nucleotide Sequence: >RG235566 representing NM_001291018. Blue=ORF Red=Cloning site Green=Tag(s)   GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGGATCTGCCGCCGCGATCGCC   ATGTCAGCCAAGGACGAGCCAGGGACATCTGTGCACCGCGCATCGCC   ATGTCAGCCAAGGAAGATACTCTGGCCAGGGACATCCTGAGGGGCTTCAAACTAAATTGGATGAACCTTCGG GATCCTGAGCAAGGAAGATACTCTGGCAAGGAAGATACCTGGCGGGCATGACGTGTGTGCAGGAGACGTGA GCCCGTGTTCCCAAGAAAATCCTCAAGTGAACAAAAGGTTTACTTCAAAGGGCAATGCCTAGAAGTGGGAACGTAA CAAATGGAAAAATTCCGCCTGGAACAAAAAGTTTACTTCAAAGGGCAATGCCTAGAAGTGGGAACGTTA TCA   Protein Sequence: >Peptide sequence encoded by RG235566 Blue=ORF Red=Cloning site Green=Tag(s)   MSAKDERAREILRGFKLNWMNLRDAETGKILWQGTEDLSVPGVEHEARVPKKILKCKAVSRELNFSSTE QMEKFRLEQKVYFKGQCLEVGTLS TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV		Neomycin
ORF Nucleotide Sequence:>RG235566 representing NM_001291018. Blue=ORF Red=Cloning site Green=Tag(s)GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCGGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCCCGCGATCGCC ATGTCAGCCAAGGAAGAGCGGGCCCGGGAGATCCTGAGGGGGCTTCAAACTAAATTGGATGAACCTTCGG GATGCTGAGCCAGGGAAGATACTCTGGCAAGGAAGACCGTGTCTGTGCCCTGGTGTGGAGCATGAA GCCCGTGTCCCCAAGGAAAATTCCCCAAGGCAAGGCAGTGCTCGAGAACTTAATTTTTCTTCGACAGAA GCCCGTGTCCCCAAGGAAAAATTCCGCCTGGAACAAAAAGTTTACTTCAAAGGGCAATGCCTAGAAGTGGGAACGTTA TCA ACGCGTACCGGGCCGCCGCCGGG - GFP Tag - GTTTAAACProtein Sequence:>Peptide sequence encoded by RG235566 Blue=ORF Red=Cloning site Green=Tag(s)MSAKDERAREILRGFKLNWMNLRDAETGKILWQGTEDLSVPGVEHEARVPKKILKCKAVSRELNFSSTE QMEKFRLEQKVYFKGQCLEVGTLS TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA FRVEEDHSNTELGIVEYQHAFKTPDADAGEERV	Vector:	pCMV6-AC-GFP (PS100010)
Sequence: Blue=ORF Red=Cloning site Green=Tag(s)   GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG   GATCCCGGTACCGAGGAGCGGCGCAGCGGCGCGCGCGCGC	E. coli Selection:	Ampicillin (100 ug/mL)
GATCCGGTACCGAGGAGATCTGCCGCGCGCGCGCCGCGATCGCC ATGTCAGCCAAGGACGAGCGGGCCAGGGAGATCCTGAGGGGGCTTCAAACTAAATTGGATGAACCTTCGG GATGCTGAGACAGGGAAGATACTCTGGCAAGGAACGAAGACCTGTCTGT		
Blue=ORF Red=Cloning site Green=Tag(s) MSAKDERAREILRGFKLNWMNLRDAETGKILWQGTEDLSVPGVEHEARVPKKILKCKAVSRELNFSSTE QMEKFRLEQKVYFKGQCLEVGTLS TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV		GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGTCAGCCAAGGACGAGCGGGCCAGGGAGATCCTGAGGGGGCTTCAAACTAAATTGGATGAACCTTCGG GATGCTGAGACAGGGAAGATACTCTGGCAAGGAACAGAAGACCTGTCTGT
QMEKFRLEQKVYFKGQCLEVGTLS TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV	Protein Sequence:	· · ·
Restriction Sites: Sgfl-Mlul		QMEKFRLEQKVYFKGQCLEVGTLSTRTRPLEMGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEDSVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA
	Restriction Sites:	Sgfl-Mlul



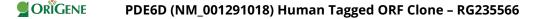
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### **Cloning Scheme:**



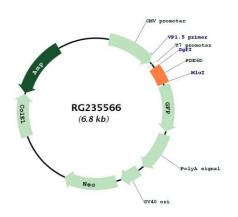
ACCN:	NM_001291018
ORF Size:	279 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its 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. <u>More info</u>
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).
RefSeq:	<u>NM 001291018.1, NP 001277947.1</u>
RefSeq Size:	1108 bp
RefSeq ORF:	282 bp
Locus ID:	5147
UniProt ID:	<u>043924</u>
Cytogenetics:	2q37.1
Protein Pathways:	Progesterone-mediated oocyte maturation, Purine metabolism
MW:	10.8 kDa

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Gene Summary:This gene encodes the delta subunit of rod-specific photoreceptor phosphodiesterase (PDE),<br/>a key enzyme in the phototransduction cascade. A similar protein in cow functions in<br/>solubilizing membrane-bound PDE. In addition to its role in the PDE complex, the encoded<br/>protein is thought to bind to prenyl groups of proteins to target them to subcellular<br/>organelles called cilia. Mutations in this gene are associated with Joubert syndrome-22.<br/>Alternative splicing results in multiple splice variants. [provided by RefSeq, Mar 2014]

## **Product images:**



Circular map for RG235566

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