

Product datasheet for **RG209691**

DPY19L2 (NM_173812) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DPY19L2 (NM_173812) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DPY19L2
Synonyms:	SPATA34; SPGF9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG209691 representing NM_173812
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGAAAACAAGGAGTAAGCTCAAAGCGGCTGCAATCTTCCGGCCGAGCCAGTCTAAGGGCGCGCGG
 GGGCCTCCCTCGCCCGGAGCCGGAGGTAGAGGAGGAGATGAAAAAGTCGGCCCTAGGCGCGGGAAACT
 GCCAAGGGGCTCCTGGAGTCTCCCGGGGAGGATCCAAAGTCTGAAAGAGCGAAAAGGCTTGGAGCTA
 GAGGTGGTGGCCAAGACCTTTCTTCTCGGCCCTTCCAGTTCGTCCGTAATTCCTGGCGCAGCTCCGGG
 AAAAGGTGCAGGAAGTGCAGGCGCGGGTTCAGCAGAACCACTCTCGGCATCGCTGTCTTTGTGGC
 AATTTTACATTGGTTACATTTAGTAACACTTTTTGAAAATGATCGTCATTTCTCTCACCTCTCATCTTTG
 GAACGGGAGATGACTTTTCGACTGAAATGGGACTTTATTATTCATACTCAAGACCATTATTGAAGCAC
 CTTTCGTTTTTGAAGGACTGTGGATGATTATGAATGACAGGCTTACTGAATATCCTTTATAATTAATGC
 AATAAACCGTTCATCTTTATCCAGAGGTAATCATAGCCTCCTGGTATTGCACATTCATGGGAATAATG
 AATTTATTTGGACTAGAACTAAGACCTGCTGGAAATGTCACCAGAATAGAACCTCTTAATGAAGTTCAA
 GCTGTGAAGGATTGGGAGATCCTGCTTGTCTTTATGTTGGTGAATCTTTATTTAAATGGACTAATGAT
 GGGATTGTTCTTCATGTATGGAGCATACCTGAGTGGGACTCAACTGGGAGGTCTTATTACAGTACTGTGC
 TTCTTTTTCAACCATGGAGAGGCCACCCGTGTGATGTGGACACCACCTCTCCGTGAAAGTTTTCTATC
 CTTTCCTGTACTTCAGATGTGATTTTAACTTTGATTCTCAGGACCTCAAGCAATGATAGAAGGCCCTT
 CATTGCACTCTGTCTTCCAATGTTGCTTTTATGCTTCCCTGGCAATTTGCTCAGTTTATACTTTTACA
 CAGATAGCATCATTATTTCCCATGTATGTTGGGATACATTGAACCAAGCAAATTCAGAAGATCATT
 ATATGAACATGATTTTCAGTTACCCTTAGTTTCATTTTATGTTTGGAAATTCATGACTTATCTTCTTA
 TTATTCCTCATCTTTGTTAATGACGTGGCAATAATTCTAAAGAGAAATGAAATTCAAAACTGGGAGTA
 TCTAAACTCAACTTTTGGCTAATCAAGGTAGTGCCTGGTGGTGTGGAACAATCTTTTGAATTTCTGA
 CATCTAAATCTTAGCGTTTCAGACCACATTCGCTGAGTGTCTTATAGCAGCCAGAATCTTAAGGTA
 TACAGATTTTGATACTTTAATATATACCTGTGCTCCCGAATTTGACTTCATGGAAAAAGCGACTCCGCTG
 AGATACACAAAGACATTATTGCTTCCAGTTGTTATGGTGATTACATGTTTATCTTTAAAAAGACTGTTT
 GTGATTTTCATATGTTTGTAGCTACAAACATTTATCTAAGAAAACAGCTCCTTGAACACAGTGAGCTGGC
 TTTTCACACATTGCAGTTGTTAGTGTACTGCCCTTGCCATTTAATTATGAGGCTAAAGATGTTTTTGG
 ACACCGCATGTGTGTTATGGCTTCTTGATATGCTCTCGACAGCTCTTTGGCTGGCTTTTTCGAGAG
 TTCGTTTTGAGAAGGTTATCTTTGGCATTTTAACAGTGATGTCAATACAAGGTTATGCAAACCTCCGTAA
 TCAATGGAGCATAATAGGAGAATTTAATAATTTGCCTCAGGAAGAATTTTACAGTGGATCAAATACAGT
 ACCACATCAGATGCTGTCTTTGCAGGTGCCATGCCTACAATGGCAAGCATCAAGCTGTCTACACTTCATC
 CCATTGTGAATCATCCACATTACGAAGATGCAGACTTGAGGGCTCGGACAAAAATAGTTTATTCTACATA
 TAGTCGAAAACTGCCAAAGAAGTAAGAGATAAATTTGTTGGAGTTACATGTGAATTATTATGTTTTAGAA
 GAGGATGGTGTGTTGTGAGAACTAAGCCTGGTTGCAGTATGCTTGAATCTGGGATGTGGAAGACCCCT
 CCAATGCAGCTAACCCCTCCTTATGTAGCGTCTGCTCGAAGACGCCAGGCCCTTACTTCACCACAGTATT
 TCAGAATAGTGTGTACAGAGATTTAAAGGTTAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG209691 representing NM_173812
 Red=Cloning site Green=Tags(s)

MRKQGVSSKRLQSSGRSQSKGRRGASLAREPEVEEEMKALSALGGGKLPKGSWRSSPGRIQSLKERKGLEL
 EVVAKTFLLGPFQFVRNSLAQLREKVQELQARRFSSRTTLGIAVAVAILHWHLHLVTLFENDRHFHSHLSSL
 EREMTFRTEMGLYYSYFKTIIIEAPSFLEGLWMIMNDRLTEYPLIINAIKRFHLYPEVIIASWYCTFMGIM
 NLFGLETKTCWNVTRIEPLNEVQSCEGLGDPACFYVGVIFILNGLMMGLFFMYGAYLSGTQLGGLITVLC
 FFFNHGEATRVMWTPPLRESFSYPFLVLQMCILTLILRTSSNDRRPFIALCLSNVAFMLPWQFAQFILFT
 QIASLFPMYVVGYIEPSKFQKIIYMMISVTLFSFILMFGNSMYLSSYSSLLMTWAILKRNEIQKLGV
 SKLNFWLIQGSAWWCGTIILKFLT SKILGVSDHIRLSDLIAARILRYTDFDTLIYTCAPFDFMEKATPL
 RYTKTLLL PVVMVITCFIFKKTVRDISYVLTNIYLRKQLLEHSELAFTLQLLVFTALAILIMRLKMFL
 TPHMCMASLICSRLFGWLFRVRFEKVI FGILTVMSIQGYANLRNQWSIIGEFNNLPQEELLQWIKYS
 TTSDAVFAGAMPTMASIKLSTLHPIVNHPHYEDADLRARTKIVYSTYSRKSAREVRDKLLELHVNYVYLE
 EAWCVVRTKPGCSMLEIWDVEDPSNAANPPLCSVLLEDARPYFTTVFQNSVYRVLKVN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:

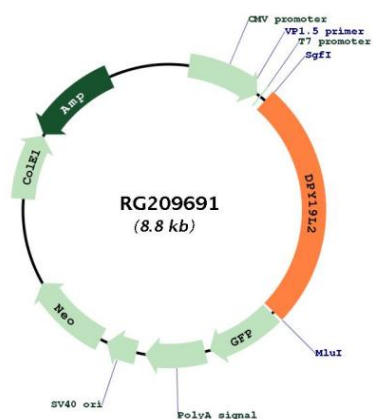


ACCN: NM_173812

ORF Size: 2274 bp

OTI Disclaimer:	<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 custsupport@origene.com 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. More info</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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:	<p>NM_173812.5</p>
RefSeq Size:	<p>4064 bp</p>
RefSeq ORF:	<p>2277 bp</p>
Locus ID:	<p>283417</p>
UniProt ID:	<p>Q6NUT2</p>
Cytogenetics:	<p>12q14.2</p>
Protein Families:	<p>Transmembrane</p>
Gene Summary:	<p>The protein encoded by this gene belongs to the dpy-19 family. It is highly expressed in testis, and is required for sperm head elongation and acrosome formation during spermatogenesis. Mutations in this gene are associated with an infertility disorder, spermatogenic failure type 9 (SPGF9). [provided by RefSeq, Dec 2011]</p>

Product images:



Circular map for RG209691