

Product datasheet for **RG220396**

FLCN (NM_144997) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FLCN (NM_144997) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FLCN
Synonyms:	BHD; DENND8B; FLCL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG220396 representing NM_144997
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATGCCATCGTGGCTCTCTGCCACTTCTGCGAGCTCCACGGCCCCGCACTCTTTCTGCACGGAGG
 TGCTGCACGCCCACTTCTCAAGGGGATGGGAATGAGGACAGTCTGGCCAGGGTGAGCAGGCGGAAGA
 AGAGGAAGGTGGCATTAGATGAACAGTCGGATGCGTGCCACAGCCCCGAGAGGGGGCCAGCGTCGAG
 TCCAGCAGCCCCGGGGCCAAAAAGTCGGACATGTGCGAGGGCTGCCGGTCACTTGTCTGCAGGGCACCCGG
 GATATATCAGCCATGATAAAGAGACCTCCATTAATACGTGAGCCACCAGCACCCAGCCACCCCACT
 CTTTCCAGCATTGTCGCCAGGCCTGTGTCCGGAGCCTGAGCTGTGAGGTCTGCCCTGGCCGTGAAGCCCC
 ATCTTCTCGGAGATGAGCAGCACGGCTTTGTGTTGAGCCACACCTTCTCATCAAGGACAGCCTGGCCA
 GGGGCTTCCAGCGCTGGTACAGCATCATACCATCATGATGGACCGGATCTACCTCATCAACTCCTGGCC
 CTTCTGCTGGGAAGGTCGGGGAATCATCGATGAGCTCCAGGGCAAGGCGCTCAAGGTGTTTGGGCA
 GAGCAGTTTGGATGCCACAGCGTGTCTAGAGGATGAACACAGCCTTACGCCATTCTACACCAGAGGA
 ACGGCAACGCGCGCCGCTCGCTGACATCGCTGACAAGTATGACAACCTGTGGGCGTGCCTGCACACCTC
 CTTTGCCTGGCTCCTGAAGGCGTGTGGCAGCCGGCTGACCAGAGAAGCTCCTGGAAGGTGCTCCGACCGAG
 GATACCTTGGTCCAGATGGAGAAGCTCGCTGATTTAGAAGAGGAATCAGAAAAGCTGGGACAACTCTGAGG
 CTGAAGAGGAGGAGAAAGCCCTGTGTTGCCAGAGAGTACAGAAGGGCGGGAGCTGACCCAGGGCCCCGGC
 AGAGTCTCTCTCTCTCAGGCTGTGGGAGCTGGCAGCCCCGGAAGCTGCCAGTCTTCAAGTCCCTCCGG
 CACATGAGGCAGTCTGGTGCCCTTCTTCCGCATGCTGGCCTGGCACGTTCTCATGGGAACCAGG
 TGATCTGGAAAAGCAGAGACGTGGACCTGTCCAGTCAGCTTTTGAAGTACTTCGGACCATGCTTCCCGT
 GGGTCCGTCGGCATCATCCCATACAGCAGCCAGTACGAGGAGGCTATCGGTGCAACTTCTGGGCTC
 AGCCCGCACGTGACATCCCCCCCCACGTCTCTCCTCAGAGTTTGTGTGTCATCGTGGAGGTCCACGCGAG
 CCGCACGTTCCACCCTCCACCCTGTGGGTTGAGGATGACCAGTCTCTCAGCAAGTACGAGTTTGTGGT
 GACCAGTGGGAGCCCTGTAGCTGCAGACCGAGTGGGCCCCACCATCCTGAATAAGATTGAAGCGGCTCTG
 ACCAACCCAGAACCTGTCTGTGGATGTGGTGGACAGTGCCTCGTCTGCCTCAAGGAGGAGTGGATGAACA
 AAGTGAAGGTGCTTTTAAAGTTCACCAAGGTGGACAGTCGACCCAAAGAGGACACACAGAAGCTGCTGAG
 CATCTGGGTGCGTCCGAGGAGGACAATGTCAAGCTGCTGAAGTCTGGATGACTGGCCTGAGCAAGACC
 TACAAGTACACCTCATGTCCACGGTCCGAGCCCCACAGCCTCGGAGTCTCGGAAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG220396 representing NM_144997
 Red=Cloning site Green=Tags(s)

MNAIVALCHFCELHGPRTLFCTEVLHAPLPQGDGNEIDSPGQGEQAEIEEGGIQMNSMRRAHSPAEGASVE
 SSSPGPKKSDMCEGRSLAAGHPGYISHDKETSIKYVSHQHPSPQLFSIVRQACVRSLSCEVCPGREGP
 IFFGDEQHGFFVSHFTFFIKDSLARGFQRWYSIITIMMDRIYLINSWPFLGKVRGIIDELQKALKVFEA
 EQFGCPQRAQMNTAFTPFLHQRNGNAARSLTSLTSDNLWACLHTSFAWLLKACGSRLTEKLEGAPE
 DTLVQMEKLADLEEESESWDNSEAEIEEKAPVLPSTEGREL TQGPAESSLSGCGSWQPRKLPVFKSLR
 HMRQVLGAPFRMLAWHVMGNQVIWKS RDVDLVQSAFEVLRMLPVGCVRIIPYSSQYEEAYRCNFLGL
 SPHVQIPPHVLSSEFAVIVEVHAAARSTLHPVGCEDDQSLSKYEFVVTSGSPVAADRVGPTILNKIEAAL
 TNQNLSDVDVQCLVCLKEEWMNKVKVLFKFTKVDSPKEDTQKLLSILGASEEDNVKLLKFWMGLSKT
 YKSHLMSTVRSPTASESRN

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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_144997.7
RefSeq Size:	3717 bp
RefSeq ORF:	1740 bp
Locus ID:	201163
UniProt ID:	Q8NFG4
Cytogenetics:	17p11.2
Protein Families:	Druggable Genome
Protein Pathways:	Renal cell carcinoma
Gene Summary:	This gene is located within the Smith-Magenis syndrome region on chromosome 17. Mutations in this gene are associated with Birt-Hogg-Dube syndrome, which is characterized by fibrofolliculomas, renal tumors, lung cysts, and pneumothorax. Alternative splicing of this gene results in two transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]