

Product datasheet for **RG224342**

FLASH (CASP8AP2) (NM_012115) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FLASH (CASP8AP2) (NM_012115) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FLASH
Synonyms:	CED-4; FLASH; RIP25
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG224342 representing NM_012115 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGCAGATGATGACAATGGTGATGGAACAAGTTTATTTGATGTCTTTCTGCTTCTCCTCTTAAGA
ACAATGATGAAGGCTCACTGGACATATACGCTGGGTGGACAGTGCTGTTCTGACAGCGCTTCCAAATC
CTGTGTACCATCAAGAAATTGTTGGACTTATATGAAGAGATCCTGACTGAAGAAGGAAGCTGCAAGGAG
GCAACATATAATGATTTGCAAGTAGAATATGGAATGTCAACTACAAATGAAAGAGCTGATGAAAAAT
TTAAAGAAATACAGACACAGAATTCAGCTTAATAAACGAAAACAGTCTCTTAAGAAGAATATTTGAGC
ACTTATCAAACTGCCAGAGTGGAAATAAACCGCAAGGATGAAGAAATAAGTAATCTTCACCAAGATTG
TCTGAGTTCCACATTTTCGAAATAATCATAAACTGCAAGGACATTTGATACAGTTAAACAAAAGATC
TTAAATCTAGATCTCCACATTTGGATGATTGTTCAAAGACTGATCACAGAGCTAAAAGTGATGTTCTAA
AGATGTACATCATAGCACTTCACTGCCAAATCTGGAAAAGGAAGGAAAACCACTTCTGATAAAGGAGT
ACTTCACATTTACCTACATCTGTTGAGAAACACTGCACTAATGGTGTGTTGGTCACTTCTCATTATCAGG
TTGGCGAGGGTAGCTCAAATGAGGATAGTAGAAGAGGAAGAAAAGATATTAGACATAGCCAGTTTAACAG
AGGAACTGAAAGAGTACGAAAAGACTTAAGTACTGGCTGTGGTGATGGTGAACCAAGGATATTGGAGGCT
AGTCAAAGGCTACAAGGACATCCTGAGAAATATGGTAAAGGTGAACCAAGACTGAAAGCAAAAGTTTCA
AGTTTAAAGTAACTCAGATTTCTGACTATAAAGGTGAACGCATTAACCTTCTTGGGAGAAAGAGACCCC
TGGAGAAAGGTCACACAGTCGAGTAGACTCTCAAAGTGACAAAAAAGTAGAAAGACAAAGTGAAAGATCA
CAAAATATAAATAGGAAAGAAGTTAAATCACAAGACAAAGAAGAAAAGTTGATCAAAACCTAAAT
CAGTAGTAAAGGACCAAGATCACTGGAGAAGATCTGAACGAGCATCACTTCCTCATTCCAAGAATGAAAT
AACATTTTCTCATAATTCAAGTAAATACCCTCTAGAAGAGAGAAGAGGATGGGAAGATTGTTAAAGAGAC
AAGAGTGTAAACAGTCATAGTTTCAAGATGGAAGATGTCCATCTTCTTTCAAACAGTAGAACTCACA
AAAACATTGACTCTAAGGAAGTTGATGCCATGCATCAGTGGGAAAATACACCTTTAAAGCAGAAAGACA
TAGAACTGAAGATAAGAGGAAAAGAGACAAGAAAGCAAAGAAGAAAATAGGCATATTAGAAATGAAAAA



[View online »](#)

AGAGTACCTACAGAACATTTGCAGAAGACTAATAAGGAACTAAGAAAACCACTACTGATTTAAAGAAAC
 AGAATGAACCAAGAGCTGATAAGGGAGAAGTCCTTGATAATGGTGTCTGAAGGAGCAGATAATAAAGA
 GCTTGCAATGAAAGCTGAGAGTGGTCCAAATGAAACAAAAACAAGGACCTAAAAATTGAGTTTTATGAAA
 AAATTGAACCTAACTCTTCTCCTGCTAAAAAGCAACCTGTTCCAGGATAATCAGCATAAAATAACTG
 ATATCCCAAGTCCAGTGGTGTATGTGATTGAGTCTTCAATGCAAGTTAAACAGTGGCATATGTTCC
 CTCCATAAGTGAACATATCTTGGGGGAAGCAGCTGTCAGTGAACATACCATGGGGGAAACCAAGTCAACG
 TTATTGGAACCAAGGTTGCTCTTCTAGCAGTGACTGAACCCAGGATCGGTATCTCAGAAACCAACAAGG
 AAGACGAAAAATAGTTTGTAGTTAGGTCTGTTGACAATACTATGCATTGTGAAGAGCCCATTTGTGGTAC
 AGAGACTTCTTCCCATCTCCTATGGAATAACAACAGACAGAATCCTTGTTCATCAACAGGAATGAAA
 CAAACCATTAATAATGGAAGGGCAGCAGCTCCTGTGGAATGGATGTATTACAAACAGATGTGTCTCAAA
 ACTTTGGCTTGAATGGATACCAAAAGAAATGATAATTCAGATTATTGTGGTATTTCTGAAGGTATGGA
 GATGAAGTGGCACTTTCAACAACAGTGAAGTGAACCACTGAAAGCATTTTGCAGCCTTCAATTGAGGAA
 GCTGATATTTGCCAATAATGCTTTCAGAAGATAAACCCTTGTGAGCCTTCTGTTATAGTTACAC
 CACTGTTGAGAGTAAGTCGTGTCATCTGGAGCCTTGCTTACCTAAAGAGACTCTAGATTCTTCACTTCA
 GCAGACTGAGTTAATGGACCACAGAATGGCAACTGGTGAACAACTCAGTATATCATGATGATGATAAC
 TCGGTTTTGAGCATTGACCTTAATCACCTGAGACCTATTCCAGAAGCCATCAGTCTCTGAATAGTCCAG
 TGAGACCTGTAGCAAAAGTTCTTAGAAATGAAAGCCACCTCAAGTTCAGTGTATAATAACAGTCATAA
 AGATGTGTTTTTACCAAAATTCAGCTCATTCTACCTCTAAGAGTCACTGATCTCAATAAGGAAAATCAA
 AAGCCAATTTACAAATCTGACAAATGTACAGAAGCAGACACATGTAAGAATTCACCATTAGATGAATTAG
 AAGAAGGAGAAATTAGAAGTGATAGTGAACATCTAAACCACAAGAAAGTTTTGAAAAAATTCCAAACG
 TAGAGTGCAGCTGATGTGCGGAAGTCAAAGACTATCCACGACGTGGGAAAAGTACTGTGTGTTAGAT
 AAAGACAGTAGGAAAACACATGTAAGAATCCATCAGACCAATAACAAATGGAATAAAGACCTGATAAT
 CTAGCAGATCTTCAAAACAGAGAAGAAAGATAAAGTGATGAGCACTTCCAGCTTGAAAAAATAGTTCC
 AATTATTGCTGTACCCTCTTCTGAACAAGAGATCATGCACATGTTACGAATGATAAGAAAAACATGTAAGA
 AAAAAATTATGAAATTCAGGCAAAATTTTCATTAATACAATTTACAGAATTATTGAGTCAGCAATTT
 TGAGTTTTACATCTTTAATTAAACATCTCAACTTACACAAATCTCTAAGTCAGTACTACCTTACAGAA
 GAATCTCTGTGATATTATAGAGTCTAACTTAAGCAAGTTAAAAAGAATGGCATAGTTGATCGTTTTATT
 GAACAGCACTACCAGATATGAAAAAAATTTGTGAAGTTTGTAGATGACCACTTATTATTGTTTG
 CAAAGCTTAAGAAATCTTAGTATGTGATTCCAAAGCTTTGGAAGAGATAGTATGAAGGCAAACTTGA
 AAAAAAAGTAAACAGAATGCACAGTATTCAAATAGTCAGAAAAGGAGTGTGGACAACCTCAACAGAGAA
 TTGCTGAAAGAAAAATTATCAAATCAGAAGACCTGTTTATTATAAGTCTTTAGTGGGATGAAAAAT
 CTGAGGAAAAATTATCAAGACCAAAATAACTCCAGTATTAACTGTAAAGCATGACATTAATAAAATTT
 TAACATCTGCTTTGATAATATAAAGAACTCTCAATCCGAAGAGCGCTCCTTGAAGTACACTGTCCAAGC
 ACCCAAGTCAAGAAAAACGAAGGAAGCAGCATAGAGGATGCACAGACATCCAGCATGCAACTTTGA
 AGCCAGAACGAAGTTTCGAGATTCTTACCGAACAGCAAGCATCGAGCCTTACTTTTAATTTAGTGAGTGA
 TGCACAAATGGGTGAAATATTTAAAGTTTGTGCAAGTTCTGATCTTTTAGACAGCAGTGTAACTGT
 ACTGAAAAAGTGAAGTGGGAGTTAAAGACTCCAGAGAAGCAGCTGCTAGAGACTCTTAAGTGCAGTCTA
 TACCAGCTTGACAACAGAAGAGCTAGTTTCAGGGGTGGCTTCTCCATGTCCTAAATGATTAGTGATGA
 TAATTGGTCATTATTATCATCTGAAAAAGTCCATCTCTGTCTTCAAGGCTTTTATTGCGGTTTCTCCT
 GATGTGTTGGATGAAAGTTGTATGTTTGAAGTGTCTACTAACCTACCTTTAAGTAAAGATAATGTGTGA
 GTGTAGAAAAGAGCAAGCCCTGCGTTTCTTCCATACTTCTTGAAGATCTAGCAGTCTCTTAAACAGTACC
 ATCGCCTCTGAAGTCAGATGGTCTCTCAGTTTTTTAAAGCCTGATATGTCGTCCAGTTCAACTCTGAA
 GAAGTCATTAGTGCTCATTTTAGTGAAGATGCCTTACTTGAGGAAGAGGATGCATCTGAGCAAGATATTC
 ATTTAGCTCTGGAGTCTGATAATTCAAGCAGTAAATCAAGTTGTTCTTCTTCTTGGACAAGCCGATCTGT
 TGCTCCAGGCTTTCAGTACCACCCTAATCTACCTATGCATGCCGTCATAATGGAAAAGTCCAATGATCAT
 TTCATTGTGAAAAACGACGTGCAACACCATCTACCTCTTCTGGCCTTAAACAGAGTATGATGCCTGATG
 AATTATTGACATCTTTGCCAGACATGGAAGGAAGCTGATGAAGGACCAGAGAAAGAATATATTTTCATG
 TCAGAACACAGTTTTTAAATCTGTGGAGGAATTGGAAAACCTCAACAAAAATGTTGATGGCAGCAAGTCA
 ACTCATGAAGAACAGAGCTCTATGATACAAACACAGGTTCTGATATATGAATTTCTTAAAGATGCTT
 CAGATAAGATGGGTCTAGTGATGAAGTGGCTGATGAATGTTTCAAAATGCATCAAGTATGGGAAACAAA
 AGTGCCTGAAAGCATTGAAGAATTGCCTTCAATGGAAGAAATCTCACACTCTGTTGGGGAACATCTTCCA
 AACACATACGTAGATCTAACGAAAGATCCAGTCACTGAAACAAAAACTTGGGGGAATTCATAGAAGTAA

CAGTTTTACATATTGATCAGTTGGGATGTTCTGGAGGCAATTTAAATCAGAGTGCTCAAATATTAGACAA
 TTCTTTGCAGGCTGATACTGTAGGTGCTTTTATTGATTTGACACAAGATGCTTCAAGTGAGGCTAAAAGT
 GAAGGTAATCATCCTGCATTAGCTGTGGAAGACTTGGGATGTGGGGTGATACAGGTAGATGAAGATAATT
 GTAAGGAAGAAAAGGCACAAGTGGCAACAGGCCTTTAAATGCATTGTTGAGGAAACCTATATCGACTT
 GACCACAGAATCTCCAGTTCATGTGAAGTAAAAAAGATGAGTTAAATCAGAGCCAGGATCAAATTGT
 GATAACTCGGAGTTGCCTGGGACTTTGCATAATTCTCACAAAAAGAGAAGAAACATTTCTGATCTAAATC
 ATCCTCATAAAAACAAGAAAGGAAACAGACTTAATAAAGGAAAAGACCAAGAAACCTACCAAGA
 TTCTTGTGAGAATACTGAAGCTACCAAAAAGAAAGCCAGTAAGAAGAAGGCCCTCTGTGACTAAAGAT
 CCCTCATCATTAAAGGCAACCCAGGGATTAAGGATTCATCAGCAGCACTTGCCACTTCTACAAGCTTT
 CTGCAAAAAATGTTATTAATAAAGAGGGAGAAATTATCATTTTATGGACAAGAAATGATACCGGGAAAT
 TTTATTGGAGTGTGAGAAAAGAGGGCCATCATTTAAACATTTGCATATTTAGCCGCCAAGTTGGATAAA
 AATCCAAATCAGGTCTCAGAAAGATTCCAGCAGCTAATGAAGCTCTTTGAAAAGTCAAAATGCAGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG224342 representing NM_012115

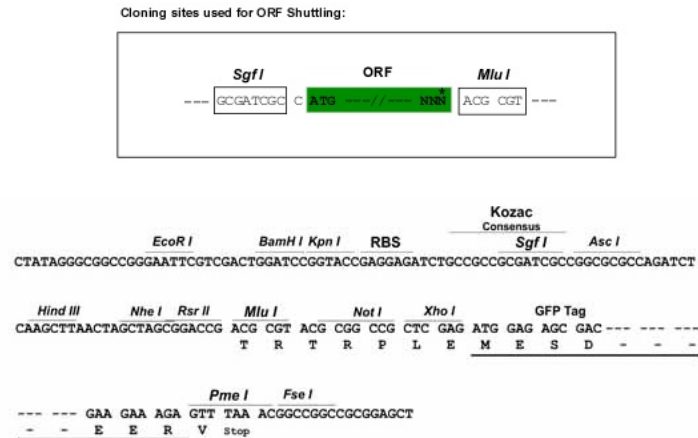
Red=Cloning site Green=Tags(s)

MAADDDNGDGTSLFDVFSASPLKNNDEGSLDIYAGLDSAVSDSASKSCVPSRNCLDL YEEIL TEEGTAK
 ATYNDLQVEYGKQQLQMKELMKFKKEIQTNFSLINENQSLKKNISALIKTARVEINRKDEEISNLHQRL
 SEFPFHRNNHKTARTFDTVKTKDLKSRSPHLDDCSKTDHRAKSDVSKDVHHSTSLPNLEKEGKPHSKRS
 TSHLPTSVEKHCTNGVWSRSHYQVGESSNEDSRGRKDIRHSQFNRGTERVRKDLSTGCGDGEPRILEA
 SQRLQGHPEKYKGEPKTESKSKFKSNSDSYKGERINSWEKETPGERSHSRVDSQSDKKLERQSE
 QNINRKEVKSQDKEERKVDQPKPSVVKDQDHWRRSERASLPHSKNEITFSHNSKYHLEERRGWEDCKRD
 KSVNSHSFQDGRCPSSLNSRTHKNIDSKEVDAMHQWENTPLKAERHRTEDKRKREQESKEENRHRNEK
 RVPTEHLQKTNKETKTTTDLKKQNEPKTDKGEVL DNGVSEGADNKEAMKAESGPNETKNKDLKLSFMK
 KLNLTLSPAKKQPVSDNQHKITDIPKSSGVCDSESSMQVKTVAAYVPSISEHILGEAAVSEHTMGETKST
 LLEPKVALLAVTEPRIGISETNKEDENSLVRSVDNTMHCEEPICGTETSFPSPMETIQTESLFPSTGMK
 QTINNGRAAAPVMDVLQTDVSNQFGLDTRNDNSDYCGISEGMEKVALSTTVSETTESILQPSIEE
 ADILPIMLSEDNNPKFEPVIVTPLVESKSCHELEPCPKETLDSSLQQTELMDHMATGETNSVYHDDN
 SVLSIDLNLRLPIPEAISPLNSPVRPVAKVLRNESPPQVPVYNNSHKDVFLPNSAHSTSKSQSDLNKENQ
 KPIYKSKDCTEADTKNSPLDELEEGERSDSETSKPQESFEKNSKRRVSADVRKSKTIPRRGKSTVCLD
 KD SRKTHVRIHQTNKNWKRDPKSSRSKTEKKDKVMSTSSLEKIVPIIAVPSSEQEIIMHMLRMIRKHVR
 KNYMKFAKAKFSLIQFHRIIESAILSFTSLIKHLNLHKISKSVTTLQKNLCDIIESKLKQVKKNGIVDRF
 EQQLPDMKKKLWKFDVDDQLDYLFAKLKILVCDKSFGRDSDEGKLEKTSKQNAQYSNSQKRSVDNSNRE
 LLKEKLSKSEDPVHYKSLVGCKKSEENYQDQNNSSINTVKHDIKKNFNICFDNIKNSQSEERSLEVHCP
 TPKSEKNEGSSIEDAQTSQHATLKPERSEILTEQQASSLTFNLVSDAQMGEIFKSLQLQGSDDLDSVNC
 TEKSEWELKTPEKQLLETLKCESIPACTTEELVSGVASPCPKMISDDNWSLLSSEKGPSSGLSLPVHP
 DVLDESCMFEVSTNLPLSKDNVCSVEKSKPCVSSILLEDLAVSLTVPSPLKSDGHL SFLKPDMSSTSTE
 EVISAHFSEDALEEEDASEQDIHLALEDNSSSKSSSSWTSRSVAPGFQYHPNLPMAVIMEKSNH
 FIVKIRRATPSTSSGLKQSMMPDELLTSLPRHGKEADEGPEKEYISCQNTVFKSVEELENSKNVDGSKS
 THEEQSSMIQTQVPDIYEFLKDA SDKMGSDEVADECFKLHQVWETKVPESIEELPSMEEISHSVGEHLP
 NTYVDLTKDPVTETKNLGEFIEVTVLHIDQLGCSGNNLQSAQILDNSLQADTVGAFIDLQDASSEAKS
 EGNHPALAVEDLGCQVIQVDEDNCKEKAQVANRPLKCI VEETYIDLTTESPSSEVKDELKSEPGSNC
 DSELPGTLHNSHKRRNISDLNHPHKQRKETDLTNKEKTKKPTQDSCENTEAHQKKASKKKAPPVTKD
 PSSLKATPGIKDSSAALATSTLSAKNVIKKKGEIILWTRNDREILLECQKRGPSFKTFAYLA AKLDK
 NPNQVSERFQQLMKLFEKSKCR

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfi-MluI

Cloning Scheme:


ACCN: NM_012115

ORF Size: 5946 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:

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_012115.4](#)

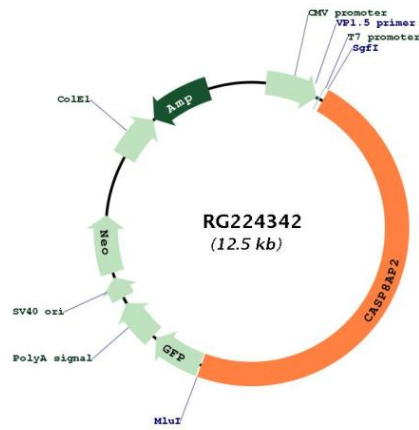
RefSeq Size: 6782 bp

RefSeq ORF: 5949 bp

Locus ID: 9994

UniProt ID:	<u>Q9UKL3</u>
Cytogenetics:	6q15
Protein Families:	Druggable Genome
Gene Summary:	This protein is highly similar to FLASH, a mouse apoptotic protein identified by its interaction with the death-effector domain (DED) of caspase 8. Studies of FLASH protein suggested that this protein may be a component of the death-inducing signaling complex that includes Fas receptor, Fas-binding adapter FADD, and caspase 8, and plays a regulatory role in Fas-mediated apoptosis. Alternative splicing results in multiple transcript variants encoding the same protein.[provided by RefSeq, Nov 2008]

Product images:



Circular map for RG224342