

## Product datasheet for **RG214244**

### **RASSF10 (NM\_001080521) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RASSF10 (NM_001080521) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RASSF10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG214244 representing NM\_001080521  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCGAGCGAGGGGCGGACAGGGCGCACGGGGCGCGGCAAGGCTGCGAGGGGCGGGCCTGGCCCTGAGC  
 CTCTGCACTTCCAGCCACAGCTCTGGCCTTGGGGCGGGAAGGGTGGAGCCACGTGGGAGGAGCAA  
 AACCCGGAGGTCCCGGGACCTTGGGCAGAGCCAGAGCGCGGGAGCCGGTCCTGGGCGCTTGCCCGG  
 GAGCGCCCGTCTCGGGCAGAGCGCAGCCGAACCGCGACCACAGCCGAGTCGCTTCCAGCCTGCCT  
 TCGCAGACCCCGCCGACCTGCCACCTGCGCCCTGGTTGCGCCATGGATCCTTCGAAAAAGAAGATATC  
 GGTGTGGATCTGCCAGGAAGAGAAGCTGGTGTCCGGCCTCTCCCGCCGACCACTTGCTCCGACGTTGTG  
 CGAGTGTCTTTGGAGGACGGCTGCCGGCGGACGGAGACAGCGCGGAGCCGGCGGCTGGGGTCCGCCG  
 GCGACCCGCATGGCCCGGAGAGCTGCCGAACCCCGAACGAGGACGACGAGGACGACGAGGGCGCT  
 GCCGCAGGGCATGCTGTGCGGGCCCCGAGTGTATTGCATCGTGGAGAAGTGGCGCGGCTTTGAGCGC  
 ATCCTCCCAACAAGACGCGCATTTGCGCCTCTGGGCTGCCTGGGGCGAAGAGCAAGAGAATGTGCGCT  
 TCGTGCTAGTGCCGAGCGAGGCATCGCTGCCTAACGCCGGCCCCGACGCGCCGAGGCGCGCTAGTGCT  
 GAGCCGAGAGCGCCCTGTCCGGCCCGGGGGCCCCGGCGCGCCAGCCTGGCCATGACCCAGGAGAAA  
 CAGCGGCGAGTGGTGCGAAGGCCTTTCGAAACTGGCCAAGCTCAACCGCGCGCCAGCAGCAGACAC  
 CGTCGCTCTGTTCTGCTCACTTCTGCTCCACTGCCTCGTCTGCTCTTCTGTCGCGCGGACCCACGAGAG  
 CGCGTCCGTGGAGCGCATGGAGACGCTGGTGCATCTGGTGCTTCCCAGGACCACACAATTCGCCAGCAG  
 GTGCAGCGGCTCCACGAGCTGGACCGGAGATCGATCACTACGAGGCCAAGGTGCACCTGGACCGCATGC  
 GGCGTCACGGGGTCAACTACGTGCAGGACACTTACTTGGTTGGGGCAGGCATCGAGCTGACCGGGTCCAG  
 ACCGGGAGAGGAGCCAGAAGAGGTGGCGCGGAGGCGGAGGAGGCGCGCGCGCCCTCTAGCCGCGC  
 GAGGCGCAGGCGCGGCGCTGGAGGAGCTGGCCGGCGCTGCGACGACTTCTGCGGCTTCAAGGAGCAAC  
 GGGTTCAGCAGGAGGAGTTGCTGGAGCGCCTTTCAGCCGAGATTCAGGAGGAACCAACCAGAGGTGGAT  
 GCGACGGCGCCAGGAGGAGCTGGCGGCGGGAGGAGCCCTGGAGCCCGACGGTGGCCCGACGGCGAG  
 CTGCTGCTGGAGCAGGAACGGGTGAGGACGAGCTCAGTACCAGCCTTACATTGGGCTGCGGCTCAACA  
 CGGACCTAGAGGCCGTCAGTCCGACTTGGATTACAGCCAGCAGCAATGGGACAGCAAGAAGCGCGAGCT  
 ACAGGGCCTTCTGCAAATTTGCACACTTTGGAGCTGACGGTGGACCGGATGGGGCTCCTGGCTCTGGC  
 AGTCCCTCGCGGGAACCTGGGCCTCAAGCTGCGCCGACATGTGGGTGGACCAGGCCGCTGGACTGGCCA  
 AGAGCGGTCTTGCAACGACGAAGACTCGGATACGGGACTGAGCTCTATGCATAGCCAAGACTCGGACTC  
 CTTGCCCATGTGCGAATCCCTTGTTG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG214244 representing NM\_001080521  
 Red=Cloning site Green=Tags(s)

MRARGGQGARGAARLRGAGLGPEPPALPATALGLGGKGWSHVGRSKTRRSRAPWAEPERREPVLGALPR  
 ERPSSGQSAATATTAAVAFQPAFADPGRTCHLRPGCAMPDSEKKISVWICQEEKLVSLSRRTTCDV  
 RVLLEDGCRRRRRQRRSRRLGSAGDPHGPPEPPNEDDEDDEALPQGMCGPPQCYCIVEKWRGFER  
 ILPNKTRILRLWAAWGEEQENVRFVLRSEASLPNAGPRSAEARVVL SRERPCPARGAPARPSLAMTQEK  
 QRRVVRKAFRKLAKLNRRRQQTPSSCSSTSSSTASSCSSPRTHESASVERMETLVHLVLSQDHTIRQQ  
 VQRLHELDREIDHYEAKVHLDRMRRHGVNYVQDTYLVGAGIELDGSRPGEPEEVAEEAEAAAAPPLAG  
 EAQAAALEELARRCDDLRLQEQRVQEELELRLSAEIQEELNQRWRRRQEELAAREEPLPDGGPDGE  
 LLLLEQERVRTQLSTSLYIGLRLNTDLEAVKSDLDSYQQQWDSKKRELQGLLQTLHTLELTVAPDGA  
 PGGSPSREPGPQACADMWVDQARGLAKSGPNDSDTGLSSMHSQDSLSLPMCESLV

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001080521

**ORF Size:** 1845 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\\_001080521.1](#), [NP\\_001073990.1](#)

**RefSeq Size:** 2698 bp

**RefSeq ORF:** 1524 bp

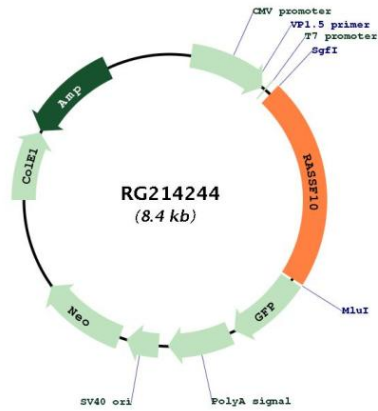
**Locus ID:** 644943

**UniProt ID:** [A6NK89](#)

**Cytogenetics:** 11p15.3

**Gene Summary:** Plays an important role in regulating embryonic neurogenesis.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG214244