

## Product datasheet for **RG234944**

### ARMCX5-GPRASP2 (NM\_001199818) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ARMCX5-GPRASP2 (NM_001199818) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ARMCX5-GPRASP2
Synonyms:	ARMCX5-GPRASP2-BHLHB9-LINC00630; bHLHb9; p60TRP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG234944 representing NM\_001199818  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGACTGGGGCAGAGATTGAGCCTAGTGCCAGGCCAAGCCTGAAAAGAAGGCTGGGGAAGAGGTTATCG  
 CTGGGCCTGAGAGAGAGAATGATGTCCCTCTGGTGGTCAGACCCAAGGTTAGGACCCAGGCAACTACTGG  
 GGCAAGGCCAAAACTGAGACCAAGTCTGTGCCTGCGGCAAGGCCAAAACTGAGGCCAAAGCAATGTCT  
 GGGCAAGGCCAAAACTGAGGTCCAAGTAATGGGTGGTGAAGACCCAAAAACGGAGGCTCAAGGAATCA  
 CAGGGGCCAGGCCAAAAACCGATGCCAGGGCAGTAGGTGGCGCTCGTTCTAAAACTGATGCCAAGGCAAT  
 CCCTGGAGCAAGGCCAAGGATGAGGCCAGGCATGGGCCAGAGTGAATTTGGGACTGAAGCAGTGTCA  
 CAGGCAGAAGGAGTGTCCAGACTAATGCCGTTGCTTGGCCACTGGCCACTGCTGAGTCTGGATCAGTTA  
 CTAATCTAAGGGCCTGTCTATGGATAGAGAAGTCAATGTGGATGCTGAAACCTTTCTGGCACCCA  
 GGGTCAGAAAGGAATCCAGCCCTGGTTTGGACCAGGGGAGGAGACTAATATGGGGTCTTGGTGTCTATTCC  
 AGGCCAGGGCCAGAGAGGAGGCCCTCTAATGAGTCTGGGTTCTGGTCAGCAGATGAGACCTCTACAGCGT  
 CTTCTTTCTGGACTGGAGAAGAGACAAGTGTGAGTATGGCCAGGGAAGAGTCCAATACCAGGTCAG  
 GCACAGGGCTAAACATCAGACTAATCCCAGGTCCAGGCCAGATCCAAGCAAGAAGCCTATGTTGATTCC  
 TGGTCTGGATCTGAGGATGAGGCCAGCAACCCATTCTCCTTCTGGGTTGGAGAAAATACCAATAACTTGT  
 TCAGGCCAGAGTCAGGGAGGAGGCAAAATCAGGTCCAAGCTCAGGACAAAATAGAGAAGATTGTTTTGA  
 ATCTGAGTCTGAAGATGAGTTCATAAGCAGTCTGGGTTTTGCCTGGAGAAGAGGCCAATAGTAGATTC  
 AGGCACAGAGACAAAGAAGATCCTAATACTGCCTTGAACCTCAGGGCCAGAAAGATGTTGACAGTGATA  
 GGGTCAAACAAGAACCAGGTTTTGAGGAGGAAGTCAATTATGGGTCCTGGTTCTGGGCAAGAAAAGAGGC  
 CAGTTTTGGAGGGTGGAGCTTCAGCAATCTGTGAATCTGAGCCAGGAACTGAGGAGGGGGCCATTGGCGGA  
 TCCGCGTACTGGGCTGAGGAAAAGTCCAGTTTGGGGGCTGTGGCCAGAGAAGAGGCCAAGCCGGAGTCTG  
 AAGAAGAGGCCATATTTGGGTCCTGTTCTGGACAGAGATGAGGCCTGCTTTGACCTAAATCCCTGTCC  
 TGTGTACAAGGTCAGTGATAGGTTTCAAGATGCAGCTGAGGAGCTTAATGCATCCTCCAGGCCCAAACC  
 TGGGACGAGGTCAGTGTGAATCAAACCTGGTCTTTTTTTCATGGGGTTGGCTTCCGATCCACAAGCCCT  
 TTGGAATTCGGAAGAGGCTTCTGAAATGCTTGAAGCAAGGCCAAGAACCTGGAACCTAGCCAGAAAG  
 AGAAGAGCAGGAATCTTTGCTTCAAGCTGATCAGCCTAGTCTGAGTTCACATTTAGTATGATCCTTCC  
 TACCGGTCAGTCCGGAAATTCGAGAGCATCTTAGGGCCAGGAGAGTGCAGAGTCTGAGAGTTGGTCTC  
 GCAGCTGCATACAATGTGAGCTGAAAATTTGGTTCTGAAGAGTTTGAAGAATTCCTTTTATTAATGGACA  
 AATTCGGGATCCTTTTATTCATGAAATATCTAAAATTGCAATGGGTATGAGAAGTCTTCTCAATTTACC  
 CGAGATTTCAATTCGAGATTCAGGTGTTGTCTCACTTATTGAAACCTTGCTTAATTTATCCATCCTCTAGAG  
 TTAGGACAAGTTTTTTGGAAAATATGATTCACATGGCTCCACCTATCCAATCTAAACATGATTGAGAC  
 ATTCATATGTCAAGTGTGTGAGGAAACCCTTGACATAGTGTGGATTCCCTTGAGCAGCTGACTGGAATA  
 AGGATGCTTAGACACCTCACTATGACTATTGACTATCACACACTGATTGCCAACTATATGTCGGGTTTC  
 TCTCCTTATTAACCACAGCCAATGCGAGAACGAAGTTTCAGTTCGAAAATGCTATTGAATTTGTCTGA  
 AAATCCTGCTGTGGCAAAAAAACTATTCAGTGCCAAAGCTCTTCAATATTTGTGGTCTCTTTAACATA  
 GAAGAGACAAATGATAATATTCAAATTGTTATTAATAATGTTTCAGAATATCAGTAACATTATAAAAAGTG  
 GAAAGATGTCCTTAATTGATGATGATTTAGTCTTGGCCGCTTATTTCTGCATTTCTGTAATTTGAGGA  
 GTTAGCTAAGCAACTACAAGCCCAATAGACAACCAAAATGATCCTGAGGTGGGACAACAAAGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG234944 representing NM\_001199818  
 Red=Cloning site Green=Tags(s)

```

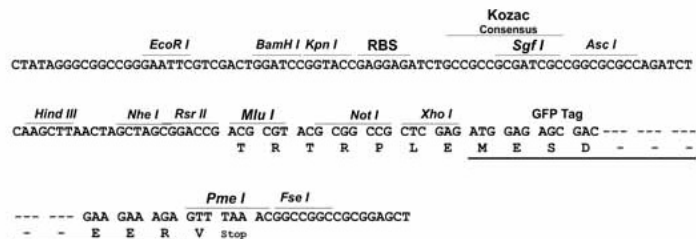
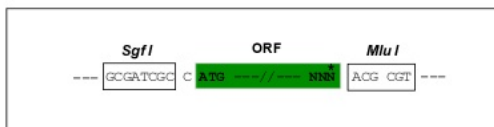
MTGAEIEPSAQAKPEKKAGEEVIAGPERENDVPLVVRPKVVRTQATTGARPKTETKSVPAARPKTEAQAMS
GARPKEVQVMGGARPKEAQGITGARPKTDARAVGGARSKTDAKAI PGARPKEAQAQSEFGTEAVS
QAEQVSTNAVAWPLATAESGVTKSKGLSMDRELVNDAETFPQTGGQKGIQPWFGPEETNMGSWCYS
RPRAREEASNESGFWSADETSTASSFWTGEETS VRSWPRESNTRSRRRAKHQTNPRSRPRSKQEAYVDS
WSGSEDEASNPF SFWVGENTNLF RPRVREEANIRSKLRTNREDCFESESEDEFYKQSWVLPGEEANSRF
RHRDKEDPNTALKLRAQKDVSDRVKQEPREVEEVIIGSWFWAEKEASLEGGASAICESEPGTEEGAIGG
SAYWAEKSSLGAVAREEAKPESEEEAIFGSWFWDRDEACFDLNPCPVYKVSDFRDAEEELNASSRPQT
WDEVTVEFKPGLFHGVGFRSTSPFGIPEEASEMLEAKPKNLELSPEGEEQESLLQPDQPSPEFTFYDPS
YRSVREIREHLRARESAESESWSCSCIQCELKIGSEEFEEFLLLMDKIRDPIHEISKIAMGMRASQFT
RDFIRDGCVVSLIETLLNYPSSRVRTSFLNMIHMAPPYPNLNMIETFCVCEETLAHSVDSLEQLTGI
RMLRHLTMTIDYHTLIANYMSGFLSLLTTANARTKFHVLKMLLNLSENPAVAKKLFSAKALSIFVGLFNI
EETNDNIQIVIKMFQNISNI IKS GKMSLIDDDFSLEPLISAFREFEELAKQLQAQIDNQNDPEVGGQS
  
```

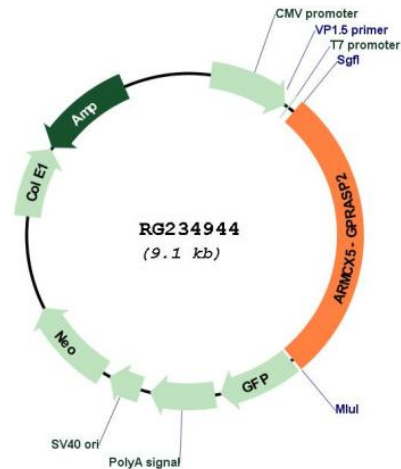
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**


**ACCN:** NM\_001199818

**ORF Size:** 2514 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\\_001199818.1](#), [NP\\_001186747.1](#)

**RefSeq Size:** 3940 bp

**RefSeq ORF:** 2517 bp

**Locus ID:** 100528062

**UniProt ID:** [Q96D09](#)

**Cytogenetics:** Xq22.1

**Gene Summary:** This locus represents naturally occurring readthrough transcription among the adjacent armadillo repeat containing, X-linked 5 (ARMCX5), G protein-coupled receptor associated sorting proteins 1 and 2 (GPRASP1 and GPRASP2), basic helix-loop-helix family member b9 (BHLHB9), and long intergenic non-protein coding RNA 630 (LINC00630) genes on chromosome X. Transcripts may make use of multiple alternative promoters and polyadenylation signals in this region. Readthrough transcripts may produce proteins identical to the proteins encoded by GPRASP2 or BHLHB9. [provided by RefSeq, Apr 2017]