

## Product datasheet for **RG222119**

### **POGK (NM\_017542) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	POGK (NM_017542) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	POGK
Synonyms:	BASS2; KRBOX2; LST003
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG222119 representing NM\_017542  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGTCCACAGCCTACCTCTCAATTTGAGCCTGAAAGAAGAGGAAGGAAGAAGAGATTAGAGCC  
 GGGAACTAGAGGACGGCCCGGCAGACATGCAGAAAGTACGAATCTGCTCTGAGGGCGGATGGGTACCGGC  
 CCTATTTGATGAGGTGGCCATATATTTTCCGATGAGGAATGGGAAGTTTACGGAGCAACAAAAGGCC  
 CTCTACCGGGAAGTCATGAGGATGAATTATGAACTGTCTGTCCCTGGAATTCCTATTCCCTAAGCCAG  
 ACATGATCACCCGTTTGGAAAGGGGAGGAGGAGTCTCAGAATTCTGACGAGTGGCAGCTCCAAGGAGGCAC  
 CTCTGCAGAAAATGAAGAATCTGACGTAAGCCTCCAGACTGGCCAAACCAATGAATGCTACCTCCAG  
 TTTCTCAGCCTCAGCACTTTGACAGCTTTGGCCTCCGCTCGCTCGGGATATCACAGAGCTGCCGAGT  
 GGAGTGGGGGTACCCCTTCTACATGGCCATGGGCTTCCAGGGTATGACCTCTCGGCTGATGACATAGC  
 TGGGAAGTTTCACTTTCAGCCGGGCATGCGCCGAGTTACGACGCAGGGTTCAAGCTGATGGTAGTGGAA  
 TATGCTGAGAGTACCAACAACCTGCCAGGCTGCCAAGCAGTTTGGAGTATTGGAAAAAACGTTTCGAGACT  
 GGCCAAAGTGAAGCCACAGCTTCAAAACGCCACGCCATGCGGCGGGCATTCCGAGGCCCAAGAATGG  
 GAGGTTTGTCTGGTGGACCAGCGTGTGGCCGAATATGTGAGATACATGCAGGCCAAAGGGGACCCATC  
 ACCCGGGAGGCGATGCAGCTGAAAGCTCTCGAAATCGCCAGGAAATGAACATCCAGAGAAAGGGTTCA  
 AGGCAAGCTTGGGTTGGTGTGCAAGAATGATGAGAAGGTATGACCTGTCTCTGAGGCATAAAGTGCCCGT  
 GCGCCAGCACCTGCCGGAAGACCTGACTGAGAACTCGTCACTTACCAGCGCAGTGTCTGGCTCTGCGC  
 AGGGCGCATGACTATGAGGTAGCTCAGATGGGGAATGCAGATGAGACGCCCATTTGTTTAGAGGTGCCAT  
 CACGGTAACTGTTGATAAACCAGGGCGAAAAGCCTGTCTTGGTCAAGACACCAGGCAGGGAAAAAGTAA  
 AATCACAGCAATGCTTGGTGTCTTGGCTGATGGGAGGAAGTACCACCGTACATCATTTTGGAGGGAACA  
 TATATCCCCCGGGGAAGTTTCCAGTGGGATGGAATTCGCTGCCACCGGTATGGGTGGATGACTGAAG  
 ACTTGTGACAGGACTGGTTGGAAGTGGTGTGGAGACGGAGGACAGGAGCAGTGCCCAAGCAGCGAGGGAT  
 GCTGATCTTGAATGGCTTCCGGGGCCATGCCACAGATTCCGTGAAGAAGTCCATGGAAAGCATGAACACT  
 GACATGGTGTATCCCAGGGGGTCTGACCTCACAGCTTCAAGTGTGGTGTGCTGCTACAAGCCAC  
 TGAATGACAGTGTGCGGGCCAGTACTCCAAGTGGCTTCTGGCTGGGAACCTGGCGCTGAGCCCAACCGG  
 GAATGCTAAGAAGCCACCCCTGGGCTCTTTCTGGAGTGGGTATGGTTCGCGTGGAAATAGCATCTCAAGT  
 GAGTCCATCGTCAAGGGTTCAAGAAGTCCATATCTCCAGCAACTTGGAGGAGGAAGACGATGTCTGT  
 GGGAAATCGAGAGTGGTTGCCAGGAGGAGGAGAACCAAAAAGATTGTGACACCGAAAGCATGGCTGA  
 GAGCAAC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG222119 representing NM\_017542  
 Red=Cloning site Green=Tags(s)

MESTAYPLNLSLKEEEEEIEQSRELEDGPADMQKVRICSEGGWVPALFDEVAIYFSDEEWEVLTEQQKA  
 LYREVMRMNYETVLSLEFPFKPDMITRLEGEESQNSDEWQLQGGTSAENESDVKPPDWPMPNATSQ  
 FPQPQHDFSLRLPRDITELPEWSEGYPFYAMGFPGYDL SADDIAGKFQFSRGMRRSYDAGFKLMVVE  
 YAESTNQCQAAKQFVLEKNVRDWRKVKPQLQNAHAMRRAFRGPKNGRFALVDQRVAEYVRYMQAKGDPI  
 TREAMQLKALEIAQEMNIPEKGFKASLWCCRMMRRYDLSLRHKVVPVQHLPEDL TEKLVTYQRSVLALR  
 RAHDYEVAQMGNADETPICLEVPSRVTVDNQGEKPVLVKTPGREKLIKITAMLGVLADGRKLPPYIILRGT  
 YIPPGKFPSPGMEIRCHRYSWMTEDLMQDWLEVVWRRRTGAVPKQRGMLILNGFRGHATDSVKNSMESMNT  
 DMVIIPGGLTSQLQVLDVVYKPLNDSVRAQYSNLLAGNLALSPTGNAKKPPLGLFLEWVMVAWNSISS  
 ESIVQGFKKCHISSNLEEEEDDLWEIESELPGGEPKDCDTE SMAESN

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_017542

**ORF Size:** 1827 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\\_017542.5](#)

**RefSeq Size:** 3852 bp

**RefSeq ORF:** 1830 bp

**Locus ID:** 57645

**UniProt ID:** [Q9P215](#)

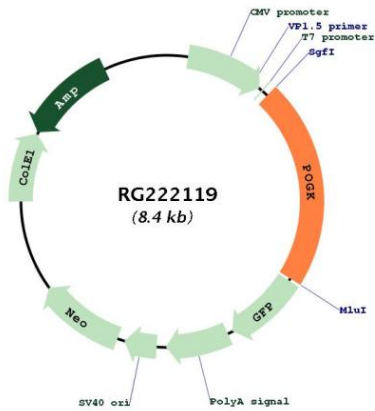
**Cytogenetics:** 1q24.1

**Domains:** KRAB, DDE, CENPB

**Protein Families:** Transcription Factors

**Gene Summary:** The exact function of the protein encoded by this gene is not known. However, this gene product contains a KRAB domain (which is involved in protein-protein interactions) at the N-terminus, and a transposase domain at the C-terminus, suggesting that it may belong to the family of DNA-mediated transposons in human. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG222119