

Product datasheet for **RG216746**

ANKK1 (NM_178510) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ANKK1 (NM_178510) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ANKK1
Synonyms:	PKK2; sgK288
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG216746 representing NM_178510
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGCCGACCCACCGAGCTGCGGCTGGGCAGCCTCCCCGTCTTACCCGCGACGACTTCGAGGGCG
 ACTGGCGCCTAGTGGCCAGCGCGGCTTCAGCCAGGTGTTCCAGGCGCGGCACAGGCGCTGGCGGACGGA
 GTACGCCATCAAGTGCGCCCTGCCTTCCACCCGACGCCCGCAGCTCTGATGTGAATTACCTCATTGAA
 GAAGCTGCCAAAAATGAAGAAGATCAAGTTTCAGCACATCGTGTCTATCTACGGGGTGTGCAAGCAGCCCC
 TGGGTATTGTGATGGAGTTTATGGCCAACGGCTCCCTGGAGAAGGTGCTGTCCACCCACAGCCTCTGCTG
 GAAGCTCAGGTTCCGCATCATCCATGAGACCAGCTTGGCCATGAACTTCTGCACAGCATTAAAGCCGCT
 CTGCTCCACCTGGACCTCAAGCCGGCAACATACTCTGGACAGCAACATGCATGTCAAATTTTCAGACT
 TCGGCCTGTCCAAGTGGATGGAACAGTCCACCCGGATGCAGTACATCGAGAGGTGGCTCTGCGGGGCAT
 GCTCAGCTACATCCCCCTGAGATGTTCTGGAGAGTAACAAGGCCCCAGGACCTAAATATGATGTGTAC
 AGCTTTGCAATTGTCATCTGGGAGCTACTCACTAGAAGAAACCATACTCAGGGTTCAACATGATGATGA
 TTATTATCCGAGTGGCGGCAGGCATGCGGCCCTCCCTACAGCCTGTCTCTGACCAATGGCCAAGCGAGGC
 CCAGCAGATGGTGGACCTGATGAAACGCTGCTGGGACCAGGACCCCAAGAAGAGGCCATGCTTTCTAGAC
 ATTACCATCGAGACAGACATACTGCTGTCACTGCTGCAGAGTCTGTGGCAGTCCCAGAGAGCAAGGCC
 TGGCCAGGAAGGTGTCTGCAAGCTGTCTGCTGCGCCAGCCCGGGGAGGTTAATGAGGACATCAGCCAGGA
 ACTGATGGACAGTGACTCAGGAACTACCTGAAGCGGGCCCTTCAGCTCTCCGACCGTAAGAATTTGGTC
 CCGAGAGATGAGGAACTGTATCTATGAGAACAAGGTCACCCCTCCACTTCTGGTGGCCAGGGCA
 GTGTGGAGCAGGTGAGGTTGCTGCTGGCCACGAGGTAGACGTGGACTGCCAGACGGCCTCTGGATACAC
 GCCCTCTGATCGCCGCCAGGACCAGCAACCCGACCTCTGTGCCTGCTTTTGGCACATGGTGTGAT
 GCCAACCGAGTGGATGAGGATGGCTGGGCCCACTGCACTTTGCAGCCAGAATGGGGATGACGGCACTG
 CGCGCCTGCTCTGGACCACGGGCCTGTGTGGATGCCAGGAACGTGAAGGGTGGACCCCTCTTACCT
 GGCTGCACAGAATAACTTTGAGAATGTGGCACGGCTTCTGGTCTCCCGTCAGGCTGACCCCAACCTGCAT
 GAGGCTGAGGGCAAGACCCCTCCATGTGGCCGCTACTTTGGCCATGTTAGCCTGGTCAAGCTGCTGA
 CCAGCCAGGGGGCTGAGTTGGATGCTCAGCAGAGAAACCTGAGAACACCACTGCACCTGGCAGTAGAGCG
 GGGCAAAGTGAGGGCCATCCAACACCTGCTGAAGAGTGGAGCGGTCCCTGATGCCCTTGACCAGAGCGGC
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 CAGCCTTGAGCTGCCACCCACAGGGCTGGACACCCCTGCATCTAGCAGCCTACAAGGGCCACCTGGA
 GATCATCCATCTGCTGGCAGAGGCCACGCAAAACATGGGTGCTCTTGGAGCTGTGAAGTGGACTCCCTG
 CACCTAGCTGCACGCCACGGGGAGGAGCGGTGGTGTGACACTGCTGCAGTGTGGGGCTGACCCCAATG
 CTGCAGAGCAGTCAAGCTGGACACCCCTCCACCTGGCGGTCCAGAGGAGCACCTTCTGAGTGTCA
 CCTCCTAGAACATCAGCAAATGTCCACGCCGCAACAAGGTGGGCTGGACACCCGCCACCTGGCCGCC
 CTCAAGGGCAACACAGCCATCCTCAAAGTGTGGTTCGAGGCAGGCGCCAGCTGGACGTCCAGGATGGAG
 TGAGCTGCACACCCCTGCAACTGGCCCTCCGACGCCGAAAGCAGGGCATCATGTCCTTCTAGAGGGCAA
 GGAGCCGTCAGTGGCCACTCTGGTGGTTCTAAGCCAGGAGCCGAGATGGAAATT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG216746 representing NM_178510
 Red=Cloning site Green=Tags(s)

MAADPTELRLGSLPVFTRDDFEGDWRLVASGGFSQVFQARHRRWRTEYAIKCAPCLPPDAASSDVNYLIE
 EAAKMKKIKFQHIVSIYGVCKQPLGIVMEFMANGSLEKVLSTHSLCWKLRFRIIHETSLAMNFLHSIKPP
 LLHLDLKPGNILLDSNMHVKISDFGLSKWMEQSTRMQYIERSALRGMLSYIPPEMFLESNKAPGPKYDVY
 SFAIIVIWELLTQKKPYSGFNMMMIIRVAAGMRPSLQPVSDQWPSEAQQMV DLMKRCWDQDPKKRPF
 ITIETDILL SLLQSRVAVPESKALARKV SCKLSLRQPGEV NEDISQELMDS DSGNYLKRALQLSDRKNLY
 PRDEELCIYENKVTPLHFLVAQGSVEQVRLLLAHEVDVDCQTASGYTPLLIAAQDQQPDLCALLLAHGAD
 ANRVEDEDGWAPLHFAAQNGDDGTARLLLDHGACVDAQEREGWTPHLHAAQN NFENVARLLVSRQADPNLH
 EAEGKTP LHVAAYFGHVSLVKLLTSQGAELDAQQRNLRTPLHLAVERGKVR AIQHLLKSGAVPDALDQSG
 YGPLHTAAARGKYLICKMLLRYGASLELPTHQGWTPHLHAA YKGHLEIIHLLAESHANMGALGAVNWTPL
 HLAARHGEEAVSALLQCGADPNAAEQSGWTPHLAVQRSTFLSVINLLEHHANVHARNKVGWTPAHLAA
 LKGNATILKVLVEAGAQLDVQDGV SCTPLQLALRSRKQGIMSFLE GKEPSVATLGGSKPGAEMI

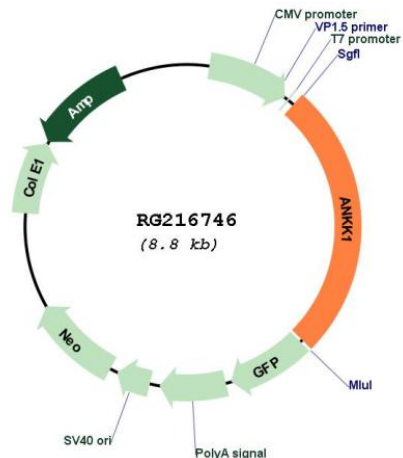
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_178510

ORF Size: 2295 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_178510.2](#)

RefSeq Size: 2543 bp

RefSeq ORF: 2298 bp

Locus ID: 255239

UniProt ID:	<u>Q8NFD2</u>
Cytogenetics:	11q23.2
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	<p>The protein encoded by this gene belongs to the Ser/Thr protein kinase family, and protein kinase superfamily involved in signal transduction pathways. This gene is closely linked to DRD2 gene (GeneID:1813) on chr 11, and a well studied restriction fragment length polymorphism (RFLP) designated Taq1A, was originally associated with the DRD2 gene, however, later was determined to be located in exon 8 of ANKK1 gene (PMIDs: 18621654, 15146457), where it causes a nonconservative amino acid substitution. It is not clear if this gene plays any role in neuropsychiatric disorders previously associated with Taq1A RFLP. [provided by RefSeq, Sep 2009]</p>