

Product datasheet for **MG215426**

Ank3 (NM_170688) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ank3 (NM_170688) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ank3
Synonyms:	2900054D09Rik; AI314020; An; Ank; Ank-3; AnkG; Anky; Ankyrin-3; Ankyrin-G
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG215426 representing NM_170688 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGAAGAGCCAAAGGAGAAGCCCGCCAAGCCTGCTCATAGGAAGAGGAAAGGAAAAAGTCTGATG
CCAACGCAAGTTACTTAAGAGCAGCTCGGGCAGGGCACCTGGAAAAGGCCCTTGACTACATCAAAAATGG
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CGACTTGGGAAAGCTGACATAGTGCAACAACCTGTTACAGCAAGGAGCATCCCCAATGCAGCAACAACCT
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 GTGAAGACGAAGAAGAAATCCGGAACGTGGAGAAGAAAACCCAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG215426 representing NM_170688
 Red=Cloning site Green=Tags(s)

MSEEPKEKPAKPAHRKRKGGKSDANASYLRAARAGHLEKALDYIKNGVDVNICNQNLNALHLASKEGHV
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 FLLDNGASQSLATEDGF TPLAVALQQGHDQVVSLLLLENDTKGKVRPALHIAARKDDTKAAALLLQNDTN
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 TSLL EYGADANAVTRQGIASVHLAAQEGHVMVSLLLSRNANVNL SNKSGL TPLHLAAQEDRVNVAEVLV
 NQGAHVDAQTKMGYTPLHVGCYGNIKI VNFLLQHSKVNKTKNGYALHQAQQGHTHI INVLLQNN
 SPNELTVNGNTALAIARRLGYISVVDTLKVVTEEIMTTTTITEKHKMNVPETMNEVLDMSSDEVRKASAP
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 KIRDTSQEPGRLSFLKEPKTTKGLPQTAVCNL NITLPAHKKAEKADRRQSFASLALRKRYSYL TEP SMS
 PQSPCERTDIRMAIVADHLGLSWTELARELNFSVDEINQIRVENPNSLISQSFMLLKKWVTRDGKNATTD
 ALTSVLTKINRIDIVTLLEGPIFDYGNISGTRSFADENNVFHDVPDVGWQNETPSGSLESPAQARRLTGGL
 LDRLDSSDQARDSITSYLTGEPGKIEANGNHTAEVIPEAKAKPYFPESQNDIGKQSIKENLKPETHGCG
 RTEEPVSPLTAYQKSLEETS KLVI EDAPKPCVPVGMKKMTRTTADGKARLNLQEEEGSTRSEPKQEGYK
 VKTKKEIRNVEKKTH

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_170688
ORF Size:	5295 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:	<ol style="list-style-type: none">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_170688.2 , NP_733789.1
RefSeq Size:	9437 bp
RefSeq ORF:	5298 bp
Locus ID:	11735
UniProt ID:	G5E8K5
Cytogenetics:	10 36.1 cM
Gene Summary:	This gene encodes a member of the ankyrin protein family. Ankyrins link integral membrane proteins to the spectrin-based cytoskeleton. Ankyrin family members share a protein structure which includes three independently folded domains: the N-terminal ankyrin repeat domain, the central spectrin-binding domain, and the C-terminal rod domain. This ankyrin functions as the major ankyrin in the kidney and may play a role in the polarized distribution of many integral membrane proteins to specific subcellular sites. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]