

Product datasheet for **RG216995**

Gastrokine 2 (GKN2) (NM_182536) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gastrokine 2 (GKN2) (NM_182536) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gastrokine 2
Synonyms:	BRICD1B; GDDR; PRO813; TFIZ1; VLT1465
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG216995 representing NM_182536 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAATACTTGTGGCATTCTGGTGGTGTGACCATCTTTGGGATACAATCTCATGGATACGAGGTTT
 TTAACATCATCAGCCCAAGCAACAATGGTGGCAATGTTTCAGGAGACAGTGACAATTGATAATGAAAAA
 TACCGCCATCATTAAATCCATGCAGGATCATGCTCTTCTACCACAATTTTGACTATAACATGGCTAC
 ATTGCATCCAGGGTGTCTCCCGAAGAGCCTGCTTTATCCTGAAGATGGACCATCAGAACATCCCTCCTC
 TGAACAATCTCCAATGGTACATCTATGAGAAACAGGCTCTGGACAACATGTTCTCCAGCAAATACACCTG
 GGTCAAGTACAACCTCTGGAGTCTCTGATCAAAGACGTGGATTGGTTCCTGCTTGGGTACCCATTGAG
 AAACCTCTGCAAACATATCCCTTTGTATAAGGGGGAAGTGTTGAAACACACATAATGTCGGTGCTGGAG
 GCTGTGCAAAGGCTGGGCTCTGGGCATCTTGGGAATTTCAATCTGTGCAGACATTTCATGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:	>RG216995 representing NM_182536 Red=Cloning site Green=Tags(s)
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MKILVAFVLVLTIFGIQSHGYEVFNIIISPSNNGGNVQETVTIDNEKNTAIIINHAGSCSSTTIFDYKHGY
 IASRVLSRRACFILKMDHQNIPLNNLQWYIYEKQALDNMFSSKYTWVKYNPLESLIKDQDWFLLGSPIE
 KLCKHIPLYKGEVVENTHNVGAGGCAKAGLLGILGISICADIV

TRTRPLE - GFP Tag - V

Restriction Sites:	SgfI-MluI
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Cloning Scheme:


ACCN:	NM_182536
ORF Size:	552 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_182536.3
RefSeq Size:	826 bp
RefSeq ORF:	555 bp
Locus ID:	200504

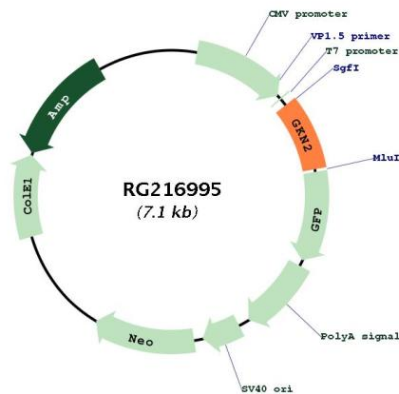
UniProt ID: [Q86XP6](#)

Cytogenetics: 2p13.3

Protein Families: Secreted Protein

Gene Summary: The secretory protein encoded by this gene is produced in gastric surface mucous cells, where it can bind trefoil factor family peptide 1 or gastrokine-1. This gene may be a tumor suppressor gene, as its expression is markedly decreased in gastric cancer tissues. The encoded protein interacts with gastrokine-1 and regulates homeostasis of the gastric mucosa. [provided by RefSeq, Dec 2015]

Product images:



Circular map for RG216995