

## Product datasheet for **RG208566**

### FUCA2 (NM\_032020) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FUCA2 (NM_032020) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FUCA2
Synonyms:	dJ20N2.5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG208566 representing NM\_032020  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCGGCCCCAGGAGCTCCCCAGGCTCGCGTTCGCCGTTCCCGTTGCTGCTGTTGCTGCTGCTGCCGCCG  
 CGCGTGCCTGCCACAGCGCCACGCGCTTCGACCCACCTGGGAGTCCCTGGACGCCGCCAGCTGCC  
 CGCGTGGTTTGACCAGGCCAAGTTCGGCATCTTCATCCACTGGGAGTGTTCGCGTCCCGAGCTTCGTT  
 AGCGAGTGGTCTGGTGGTATTGGCAAAAGGAAAAGATACCGAAGTATGTGGAATTTATGAAAGATAATT  
 ACCCTCTAGTTTCAAATATGAAGATTTGGACCATAATACAGCAAAATTTTAAATGCCAACCAAGT  
 GGCAGATATTTTCAGGCCTCTGGTGCCAAATACATTGTCTTAACCTCCAAACATCATGAAGCTTTACC  
 TTGTGGGGTCAAGATATTCGTGGAAGTGAATGCCATAGATGAGGGGCCAAGAGGGACATTGTCAAGG  
 AACTTGAGGTAGCCATTAGGAACAGAAGTACCTGCGTTCGTTGGACTGTACTATCCCTTTTGAATGGTT  
 TCATCCGCTCTTCTTGAGGATGAATCCAGTTCATTCCATAAGCGCAATTTCCAGTTTCTAAGACATTG  
 CCAGAGCTCTATGAGTGTGAACAATATCAGCCTGAGGTTCTGTGGTGGATGGTACCGAGGAGCAC  
 CGGATCAATACTGGAACAGCACAGGCTTCTTGGCCTGGTTATATAATGAAAGCCAGTTCGGGGCACAGT  
 AGTCACCAATGATCGTTGGGAGCTGGTAGCATCTGTAAGCATGGTGGCTTCTATACCTGCAGTGATCGT  
 TATAACCCAGGACATCTTTGCCACATAAATGGGAAAAGTGCATGACAATAGACAAACTGTCTGGGGCT  
 ATAGGAGGGAAGCTGGAATCTCTGACTATCTTACAATTGAAGAATTGGTGAAGCAACTTGTAGAGACAGT  
 TTCATGTGGAGGAAATCTTTGATGAATATTGGGCCACACTAGATGGCACCATTCTGTAGTTTTGAG  
 GAGCAGTGAAGCAAGTGGGCTCTGGCTAAAAGTCAATGGAGAAGCTATTTATGAAACCTATACCTGGC  
 GATCCCAAGATGACACTGTCACCCAGATGTGTGGTACACATCCAAGCCTAAAGAAAATTAGTCTATGC  
 CATTTTTCTTAAATGGCCACATCAGGACAGCTGTTCTTGGCCATCCCAAGCTATTCTGGGGGCAACA  
 GAGGTGAAACTACTGGGCCATGGACAGCCACTTAAGTGGATTTCTTGGAGCAAAATGGCATTATGGTAG  
 AACTGCCACAGCTAACCATTCATCAGATGCCGTGTAATGGGGCTGGGCTCTAGCCCTAACTAATGTGAT  
 C

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG208566 representing NM\_032020  
 Red=Cloning site Green=Tags(s)

MRPQELPRLAFLLLLLLLLPPPPCPAHSATRFDPTWESLDARQLPAWFDQAKFGIFIHWGVFVSPSFG  
 SEFWWWYQKEKIPKYVEFMKDNYPSPFKYEDFGPLFTAKFFNANQWADIFQASGAKYIVLTSKHHEGFT  
 LWGSEYSWNWNAIDEGPKRDIVKELEVAIRNRDLRFGLYYSLEFWFHPLFLEDESSSFHKRQFPVSKTL  
 PELYELVNNYQPEVLWSDGDGGAPDQYWNSTGFLAWLYNESPVRGTVVTNDRWGAGSICKHGGFYTCSDR  
 YNPGHLLPHKWENCMTIDKLSWGYRREAGISDYLTIEELVKQLVETVSCGNLLMNIPTLDGTISVFE  
 ERLRQVGSWLKVNGEAIYETYTWRSQNDVTPDVWYTSKPKEKLVYAIIFLKWPTSGQLFLGHPKAILGAT  
 EVKLLGHGQPLNWISLEQNGIMVELPQLTIHQMPCKWGWALALTNVI

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_032020

**ORF Size:** 1401 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\\_032020.2](#)

**RefSeq Size:** 2098 bp

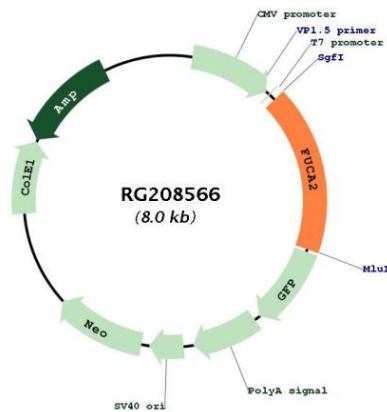
**RefSeq ORF:** 1404 bp

**Locus ID:** 2519

**UniProt ID:** [Q9BTY2](#)

<b>Cytogenetics:</b>	6q24.2
<b>Domains:</b>	Alpha_L_fucos
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Protein Pathways:</b>	Other glycan degradation
<b>Gene Summary:</b>	This gene encodes a plasma alpha-L-fucosidase, which represents 10-20% of the total cellular fucosidase activity. The protein is a member of the glycosyl hydrolase 29 family, and catalyzes the hydrolysis of the alpha-1,6-linked fucose joined to the reducing-end N-acetylglucosamine of the carbohydrate moieties of glycoproteins. This enzyme is essential for Helicobacter pylori adhesion to human gastric cancer cells. [provided by RefSeq, Aug 2010]

**Product images:**



Circular map for RG208566