

Product datasheet for **RG205854**

LOC220686 (NM_199283) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LOC220686 (NM_199283) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LOC220686
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG205854 representing NM_199283
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACAGTGGAGCAGAAATTTGGCTGTTTCTGCTGAGATAAAGGAAGCAGACCCCTGGCTGCCTCGG
 AAGCAAGTCAACCCAAACCTGTCCCCGAAGTGACCCCCACTACATCTGGATCGACTTCTGGTGCA
 GCGGTTTGAGATCGCAAGTACTGCAGCTCTGACCAAGTGGAGATCTTCTCCAGCCTGCTGCAGCGCTCC
 ATGTCCCTGAACATCGGCAGGGCCAAGGGGAGCATGAACCGCACGTGGCGGCCATCGGGCCCCGTTCA
 AGCTGCTGACCTGGGGCTGTCCCTCTGCATGCCGATGTGGTCCAAATGCAACCATCCGCAATGTGCT
 TCGCGAGAAGATCTACTCCACTGCCTTTGACTACTTCAGCTGTCCCCAAAGTTTCTACTCAAGGAGAG
 AAGCGGTGCGTGAAGACATAAGCATCATGATTAATTTGGACC GCCATGTTCTCAGATAAGAAGTACC
 TGACCGCCAGCCAGCTTGTCCCCAGCTGACATCGGCGACCTCTGGAGCAGTTAGTAGAGGAGAACAC
 AGGCTCCTTGTGGGCCAGCGAAGGACTTTTACCAGCGGGAGTTTGATTTCTTTAAACAAGATCACCAAC
 GTGTCCGCTATCATCAAGCCCTACCCTAAAGGCGACGAGAGAAAGAAGGCTTGCTGTGGCCCTGTCTG
 AAGTGACGGTGCAGCCAGGCTGCTCCCTGCCAGCAACCCGAAGCCATTGTGCTGGACGTCGACTACAA
 GTCTGGGACCCCGATGCAGAGTGTGCAAAAGCCCATATCTGGCCAAGTTCAAGGTGAAGCGATGTGGA
 GTTAGTGAAC TTGAAAAAGAAGTCTGCGGTGCCGCTCAGACTCTGAGGATGAGTGCAGCACGCAGGAGG
 CCGACGGCCAGAAGATCTCTGGCAGGCAGCCATCTTCAAAC TGGGAGACGACTGCCGGCAGGACATGCT
 GGCCCTGCAGATCATCGACCTCTTCAAGAACATCTTCCAGCTGGTGGCCTGGACCTCTTTGTTTTTCCC
 TACCGCTGGTGGCCACTGCCCTGGGTGCGGGTGATCGAGTGCATCCCGACTGCACCTCCCGGGACC
 AGCTGGGCCGCCAGACAGACTTCGGCATGTACGACTACTTCACACGCCAGTACGGGGATGAGTCCACTCT
 GGCTTCCAGCAGGCCCGCTACAACCTCATCCGAAGCATGGCCGCTACAGCCTCCTGTTCTCTGCTG
 CAGATCAAGGACAGACACAACGGCAACATTATGCTGGACAAGAAGGGCCATATCATCCACATTGACTTTG
 GCTTATGTTTGAAGCTCGCCGGGCGCAATCTCGGCTGGGAACCCGACATCAAGCTGCAGGATGAGAT
 GGTGATGATCATGGGGGCAAGATGGAGGCCACACCCCTCAAGTGGTTCATGGAGATGTGTGTCGAGGC
 TACCTGGCTGTGCGGCACAGTTTAGCCCCAACATGACTGAGCGCGAGGCTGCAAATTTTCATCATGAAGG
 TCATCCAGAGCTGCTTCTCAGCAACAGGAGCCGGAC TACAACATGATCCAGTACTATCAGAATGACAT
 CCCCTAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG205854 representing NM_199283
 Red=Cloning site Green=Tags(s)

MTVEQKFLFSAEIKEADPLAASEASQPKPCPPEVTPHYIWIDFLVQRFEIAKYCSSDQVEIFSSLLQRS
 MSLNIGRAKGSNMRHVAAIGPRFKLLTLGLSLLHADVVPNATIRNVLREKIYSTAFDYFSCPPKFPTQGE
 KRLREDISIMIKFWTAMFSDKKYLTASQLVPPADIGDLLEQLVEENTGSLSGPAKDFYQREFDFFNKITN
 VSAIIKPYPKGDERKKACL SALSEVTVPQGC SLPSNPEAIVLDVDYKSGTQPMQSAAKAPYLAKFKVKRCG
 VSELEKEGLRCRSDSEDECSTQEADGQKISWQA AIFKLGDDCRQDMLALQIIDLFKNIFQLVGLDLFVFP
 YRVVATAPGCGVIECIPDCTSRDQLGRQDFGMYDYFTRQYGDSTLAFQQARYNFI RSMAYSLLLFLL
 QIKDRHNGIMLDKKGHI IHIDFGFMFESSPGGNL GWEPDIKL TDEMVMIMGGKMEATPFKWFMEMCVRG
 YLAVRHRFSPNMTERE AANFIMKVIQSCFLSNRSRTYNMIQYYQNDIPY

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:

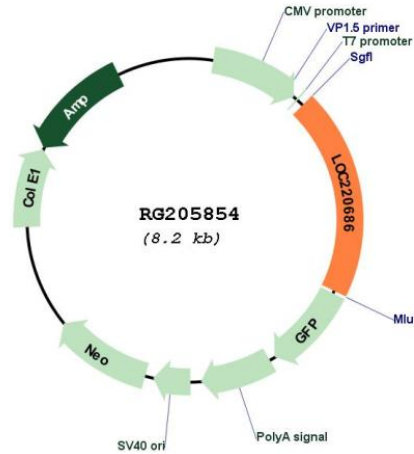


EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI
 CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT

 HindIII NheI RsrII MluI NotI XhoI GFP Tag
 CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- ---
 T R T R P L E M E S D - - -

 PmeI FseI
 --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT
 - - E E R V Stop

Plasmid Map:



ACCN: NM_199283

ORF Size: 1503 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_199283.4](#), [NP_954977.2](#)

RefSeq Size: 2298 bp

RefSeq ORF: 1505 bp

Locus ID: 220686

Cytogenetics: 22q11.21