

Product datasheet for **RG205400**

CCDC54 (NM_032600) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	CCDC54
Synonyms:	NYD-SP17; SP17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG205400 representing NM_032600
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGTACACACTTCACACAAAAGGGTAAAAGCTGCTGCTAGGCAGATGTGGACTTCAAATCTCTCCAAGG
TCAGACAGTCTCTTAAAAATGTTTACCACAAATGTAAGATTCAGCACCAAGATTCAACTGGATATCCAC
TGTGACATCTGATGATTGTAATCAAGATGATGATGTTATGACGGAAAAATGAATCTCCAGTAGTGCTC
CAAGATGTTAAACTGCTCAAGTTGAATTTTCAGCCAAATGACTGACATTGTCCATATGATACCAAAAG
TCCAGGAAAAGACTGACTTGTATCAAAAACAGATGGAGGTCCTGGAAACCAGAATGAATGTTAATGAAGA
CAAACAATGCACAACGACTAAAGATATCCTCTCTATGAAAGAAGACATCAAGGCATTAAAGAAGAAGGTG
ACAGAACTGGAAATTCAGAATTCCTGCTCCACGATACATTGTCTAGAGATTCTGGAGGGAGAAAGGGTA
AAGAAATCACAGAACTGCTTTACAACTCATAACCAAGCACTCTGAAGAACACTTTGGCCTCTACAGA
CATGGAAATCTCTTCAGCAGAACCAAGAGAAAGTCCCCAGTTATCCAAAGTCCACTGACCATCTTGAGAAA
AAAACAATTTCTCCCAATGAAAACCTCTGAAGAAACGTAACCATCAAAATGCATCAAGGAGCTTTGAAA
AAGCAAAGCCAAATATTTACATTTACCCAGACTTCAGTACATGGATCAAGCTAACTTTTGTTCATGGAGG
AAATGGACATTTTCTCAGTGCTACCAAGTTAGAAGAATTCATCCAGTGGCTTCTTTCTAGGCCAACC
ATTCTTCTGAGGAACCCAGGTCATAACCCAGAGATACTGTCATTCACTGGGCCCATTTTGAGCTTGA
CCACAATCTGTCTCTCCATCTTCAACAATTTACGGCTTTATTTGTTCTTAAAGAAGAAGTAAGTCTG
ACTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG205400 representing NM_032600
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MYTLHTKRVKAAARQMWTSNLSKVRQSLKNVYHKCKIQHQDSTGYPTVTSDDCNQDDSDYGKMNLPVVL
QDVKTAQVELFSQMTDIVHMIPKVQEKTDLYQKQMEVLETRMNVNEDKQCTTTKDILSMKEDIKALKKKV
TELEIQNSCSTIHCLILEGERGKEITELLYKLIQPATLKNLSTADMEISSAEPEKVPSYPKSTDHLEK
KTISPQMKTLLKRNHQNARSFEKAKPNIIYPDFSTWIKLTFVHGGKWTFFLSATKLEEFIQWLLSRPT
ILPEEPQVITQRYCPFTGPILSLTTICLSIFNNIYGFICSLKEEVRTL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCGCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGTCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - -

--- GAA GAA AGA GTT TAA ACGGCCGGCCGGAGCT

- - E E R V Stop

ACCN: NM_032600

ORF Size: 984 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_032600.2](#), [NP_115989.1](#)

RefSeq Size: 1294 bp

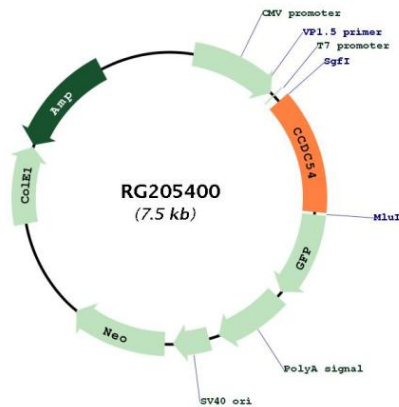
RefSeq ORF: 987 bp

Locus ID: 84692

UniProt ID: [Q8NEL0](#)

Cytogenetics: 3q13.12

Product images:



Circular map for RG205400