

## Product datasheet for **RG226592**

### CD164 (NM\_001142401) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CD164 (NM\_001142401) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** CD164  
**Synonyms:** DFNA66; endolyn; MGC-24; MGC-24v; MUC-24  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG226592 representing NM\_001142401  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCGGGCTCTCCCGCTCACTGCTTTGGGCCGCCACCTGCCTGGGCGTGCTCTGCGTGCTGTCCGCGG  
ACAAGAACACGACCCAGCACCCGAACGTGACGACTTTAGCGCCCATCTCCAACGTAACCTCGGCGCCGGT  
GACGTCCTCCCGCTGGTCACTCCGGCACCAGAACTGTGAAGGTCGAAACAGCTGCGTTTCCTGT  
TTAATGTAGCGTTGTTAATACTACCTGCTTTGGATAGAATGTAAGATGAGAGCTATTGTTACATA  
ACTCAACAGTTAGTGATTGTCAAGTGGGAACACGACAGACTTCTGTTCCGCTAAACCCACAGTTCAGCC  
CTCCCCTTCTACAACCTCAAGACAGTTACTACATCAGGTACAACAAATAACACTGTGACTCCAACCTCA  
CAACCTGTGCGAAAGTCTACCTTTGATGCAGCCAGTTTCATTGGAGGAATTGTCCTGGTCTTGGGTGTC  
AGGCTGTAATTTCTTTCTTTATAAATTCTGCAAATCTAAAGAACGAAATTACCACACTCTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG226592 representing NM\_001142401  
Red=Cloning site Green=Tags(s)

MSRLSRLLWAATCLGVLCVLSADKNTTQHPNVTTLAPISNVTSAPVTSPLPLVTTTAPETCEGRNSCVSC  
FNVSVVNTTFCWIECKDESYCSHNSTVSDCQVGNNTDFCSAKPTVQPSPTTSKTVTTSGTNNNTVPTPS  
QPVRKSTFDAASFIGGIVLVGVQAVIFFLYKFCKSKERNYHTL

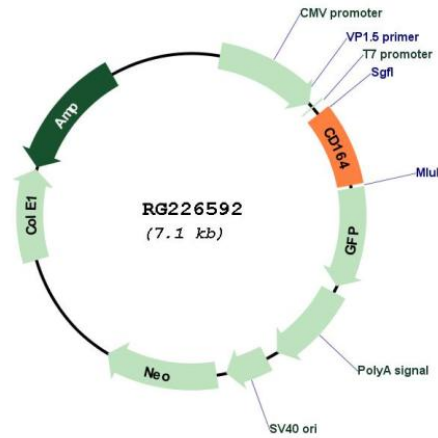
**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001142401

**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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001142401.2</u>
<b>RefSeq Size:</b>	3089 bp
<b>RefSeq ORF:</b>	555 bp
<b>Locus ID:</b>	8763
<b>UniProt ID:</b>	<u>Q04900</u>
<b>Cytogenetics:</b>	6q21
<b>Protein Families:</b>	Secreted Protein, Transmembrane
<b>Protein Pathways:</b>	Lysosome
<b>Gene Summary:</b>	This gene encodes a transmembrane sialomucin and cell adhesion molecule that regulates the proliferation, adhesion and migration of hematopoietic progenitor cells. The encoded protein also interacts with the C-X-C chemokine receptor type 4 and may regulate muscle development. Elevated expression of this gene has been observed in human patients with Sezary syndrome, a type of blood cancer, and a mutation in this gene may be associated with impaired hearing. [provided by RefSeq, Oct 2016]