

## Product datasheet for **RG236174**

### CD99 (NM\_001277710) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CD99 (NM\_001277710) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** CD99  
**Synonyms:** HBA71; MIC2; MIC2X; MIC2Y; MSK5X  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG236174 representing NM\_001277710.  
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCCGCGGGGCTGCGCTGGCGCTGCTCTTCGGCCTGCTGGGTGTTCTGGTCCGCCCCCGGAT
GGTGGTTTCGATTTATCCGATGCCCTTCTGACAATGAAAACAAGAAACCCACTGCAATCCCAAGAAA
CCCAGTGTGGGGATGACTTTGACTTAGGAGATGCTGTTGTTGATGGAGAAAATGACGACCCACGACCA
CCGAACCCACCAACCGATGCCAAATCCAAACCCCAACCACCCTAGTTCCTCCGGTAGCTTTTCAGAT
GCTGACCTTGGCGATGGCGTTTCAGGTGGAGAAGGAAAAGGAGGCAGTGTGGTGGAGGCAGCCACAGG
AAAGAAGGGGAAGAGGCCGACGCCCCAGGCGTGATCCCCGGGATTGTGGGGGCTGTCGTGGTCCCGTG
GCTGGAGCCATCTCTAGCTTCATTGCTTACCAGAAAAAGAGCTATGCTTCAAAGAAAATGATGGC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG236174  
Blue=ORF Red=Cloning site Green=Tag(s)

```
MARGAALALLLFGLLGVLVAAPDGGFDLSDALPDNENKKPTAIPKKPSAGDDFDLGDAVVDGENDPRP
PNPPKMPNPNPSSSGSFSADLADGVSSGEGKGGSDGGGSHRKEGEEADAPGVIPGIVGAVVVAV
AGAISSFIAYQKKKLCFKENDG
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSSHMHFSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:** Sgfl-MluI



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<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>RefSeq:</b>	<u>NM_001277710.1, NP_001264639.1</u>
<b>RefSeq Size:</b>	1270 bp
<b>RefSeq ORF:</b>	483 bp
<b>Locus ID:</b>	4267
<b>Cytogenetics:</b>	X;Y
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Cell adhesion molecules (CAMs), Leukocyte transendothelial migration
<b>MW:</b>	16.5 kDa
<b>Gene Summary:</b>	The protein encoded by this gene is a cell surface glycoprotein involved in leukocyte migration, T-cell adhesion, ganglioside GM1 and transmembrane protein transport, and T-cell death by a caspase-independent pathway. In addition, the encoded protein may have the ability to rearrange the actin cytoskeleton and may also act as an oncosuppressor in osteosarcoma. This gene is found in the pseudoautosomal region of chromosomes X and Y and escapes X-chromosome inactivation. There is a related pseudogene located immediately adjacent to this locus. [provided by RefSeq, Mar 2016]