

## Product datasheet for SC303011

### Flamingo homolog 1 (CELSR3) (NM\_001407) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Flamingo homolog 1 (CELSR3) (NM\_001407) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** CELSR3  
**Synonyms:** ADGRC3; CDHF11; EGFL1; FMI1; HFMI1; MEGF2; RESDA1  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL4  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_001407 edited  
 ATGATGGCGAGGCGCCCGCTGGCGGGCCTCGGGGAACGGTCGACCCCATACTCCTG  
 CTCCTTCTCCTCTTTTGTTCCTCAGCCAGGAGAGCTGGGGGGCGGTGGGCACCAG  
 GGCTGGGACCCAGGCTTAGCTGCCACTACGGGGCCAAGGGCGCATATCGGTGGCGGAGCC  
 TTAGCTCTTTGTCCGGAGTCTTCCGGGGTCCGGGAGGATGGGGGGCCTGGCCTGGGGGT  
 AGGGAGCCTATCTTCGTGGGGCTCCGAGGGAGAAGGCAAAGCGCCCGAATAGTCGAGGG  
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 ACCCTTCGCGAGAATGTGGAGGAGGGTACCCTATCCTGCAGCTGCGTGCCACTGACGGC  
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 GTGGACCGCGAGCACATGAAAGCTATGAGCTGGTGGTGAAGCCAGCGACCAGGGCCAG



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GAACCCGGGCCGCGCTCGGCCACTGTGCGCGTACACATAACTGTGCTAGACGAGAACGAC  
 AATGCTCCTCAGTTCAGCGAGAAGCGCTACGTGGCGCAGGTGCGCGAGGATGTGCGCCCC  
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 GTGGTGGACATCAATGACCACATTCTATTTTTGTGTCAGCACGCCCTTCCAAGTTTCTGTC  
 TTGGAAAATGCTCCCTTGGGTCACTCAGTCATCCACATTAGGCAGTCGATGCAGACCAT  
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GACCAGGACAGCCAGCGGGCCGAGCTACCTCAGGGACAATGTCCTGGTTCGACATGGC  
TCAGCCGCTGACCACACTGACCACAGCCTCCAGGCTCATGCTGGCCCCACTGACCTGGAC  
GTGGCCATGTTCCATCGAGATGTGGCGCAGACTCCGACTCTGACAGTGCCTGTCTTG  
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GCCCCCTGTGCTCTGCAGACTTGGGGCTCTGAAAGGCGCCTGGGGCTGGACACCAGCAAG  
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CCACAGACCCGAGGTGCCCTGAGCTGTCTGGTGCCGTGCAGCCACCTTGGGCCACCGT  
GCTGTGCCAGCTGCCTTTACGGTCGCATCTATGCTGGCGGGGGCACGGGCAGCCTTTCA  
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TCAAGGGACCCCTCTTGCCATCCCGCCGCTGGACTCTCTGTCTAGGAGCTCGAACTCT  
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CCGCAGCTGCTCAGAGCTAGGGAGGACTCGGTCACTGGCCCCAGCCATGGCCCCTCCACA  
GAACAGTTGGACATTCTTCTCCATCCTTGCCTCTTTCAACTCCTCGGCCCTCTCCTCT  
GTGCAATCTTCAAGCACACCCCTGGGCCCTCACACCACTGCCACACCTTCTGCCACAGCC  
TCTGTGCTTGGGCCCTCCACGCCAGTTCTGCCACGTCTCACAGCATCTCGGAGCTGTGC  
CCAGACTCAGAAGTCCCAGAAGTGAGGGTCACTCTGA

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_001407 unedited  
 GACAATTGTATACGACTCCTATAGGGCGGCCGCGACTTCATGTATGTGCGAGGCGGCCGC  
 CGTGGCGGGGCTCGGGGAACGGTGCACCCCATACTCCTGCTCCTTCTCCTCTCTTTGT  
 TCCCCCTCAGCCAGGAGGAGCTGGGGGGCGGTGGGCACCAGGGCTGGGACCCAGGCTTAG  
 CTGCCACTACGGGGCCAAGGGCGCATATCGGTGGCGGAGCCTTAGCTCTTTGTCCGGAGT  
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 GGCTCCGAGGGAGAAGGCAAAGCGCCCGAATAGTCGAGGGCCCCCTGAGCAGCCGAATG  
 AGGAGCTGGGGATTGAACACGGCGTCCAGCCATTGGGCAGCCGGAACGAGAGACAGGAC  
 AGGGACCAGGGTCTGTGTATACTGGCGCCAGAGGTCTCCTCTTGGGGCGGACAGGAC  
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 AATTATGGGCAACAGGGAGCAAGGGTCAAGGGCAGAGAGCCACGACATCCGGAGCAGAAA  
 GGACAGCCCCCGCGGAAGTGTCTCCAGGGGCTCGGGATCTGGCCCCGAGCTGGATT  
 CAGCACCACGCACGGCGAGGACAGCTCCTGCATCAGGTTACGACCCCCGCGAGTCTCGA  
 CAGCTCCCGAGCCGCGCCCAAGCGCATGCGCTCCCGGTCTCTCCGCTGCCGTTCTCT  
 CCCGACGCGCCC

**3' Read Nucleotide Sequence:**

>Forward primer walk for NM\_001407 unedited  
 GTCGCATAGGGCCCTCGAGTGGTTGAGCAGCTGCCTCCGCCCGCCGACCCGGGACCT  
 TGACCCACAGCCCCACCTCTGCCCTGTCTCCCAGCGGCAACTCTCAAGGGACCCCT  
 CTTGCCATCCCGCCGCTGGACTCTGTCTAGGAGCTCGAACTCTCGGGAGCAGCTGGA  
 CCAGGTGCTAGCCGGCACCCCTCACGAGAAGCCCTTGGGCCACTCCCGAGCTGCTCAG  
 AGCTAGGGAGGACTCGGTCAAGTGGCCCCAGCCATGGCCCCCACCAGAACAGTTGGACAT  
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 CACACCTTGGGCCCTCACACCACTGCCACACCTTCTGCCACAGCCTCTGTGCTTGGCC  
 CTCCACGCCACGTTCTGCCACGTCTCACAGCATCTCGGAGCTGTGCCAGACTCAGAAGT  
 TCCCAGAAGTGAGGGTCACTCCTGAGGGGATGACGGCGTGGACGAGGAACAGCTGAGGGC  
 GACAGAGGATCTAGGCTAACAGGAGAGACTCCAGGAGTGGGGCAGATCCCAAGGCAGCC  
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 TGGGGGTTTGTAGCTGGGCTGGGAGGGAGGAGATAGAGGAGAGATGCAGTTTGACCCC  
 ATTTGGTCTGAGCAACCCTATGCTCATCTCCTCTCCTTCTCTGGAT

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_001407

**OTI Disclaimer:**

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<b>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to differ from the protein associated to this reference by two amino acids.
<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><a href="#">NM_001407.1</a></u> , <u><a href="#">NP_001398.1</a></u>
<b>RefSeq Size:</b>	11965 bp
<b>RefSeq ORF:</b>	9939 bp
<b>Locus ID:</b>	1951
<b>UniProt ID:</b>	<u><a href="#">Q9NYQ7</a></u>
<b>Cytogenetics:</b>	3p21.31
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Gene Summary:</b>	This gene belongs to the flamingo subfamily, which is included in the cadherin superfamily. The flamingo cadherins consist of nonclassic-type cadherins that do not interact with catenins. They are plasma membrane proteins containing seven epidermal growth factor-like repeats, nine cadherin domains and two laminin A G-type repeats in their ectodomain. They also have seven transmembrane domains, a characteristic feature of their subfamily. The encoded protein may be involved in the regulation of contact-dependent neurite growth and may play a role in tumor formation. [provided by RefSeq, Jun 2013]