

## Product datasheet for **SC311416**

### PLEKHG5 (NM\_001042663) Human Untagged Clone

#### Product data:

|                      |                                                                                                      |
|----------------------|------------------------------------------------------------------------------------------------------|
| Product Type:        | Expression Plasmids                                                                                  |
| Product Name:        | PLEKHG5 (NM_001042663) Human Untagged Clone                                                          |
| Tag:                 | Tag Free                                                                                             |
| Symbol:              | PLEKHG5                                                                                              |
| Synonyms:            | CMTRIC; DSMA4; GEF720; Syx; Tech                                                                     |
| Vector:              | <u>pCMV6 series</u>                                                                                  |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_001042663, the custom clone sequence may differ by one or more nucleotides |

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ATGGACGACCAAGAGCCCGCTGAAAAGAAGGGACTGCGCTGTCAGAACCCCGCTGCATG
GACAAGGGGGCGGGCGGCCAAGGTATGTACACACGCCGACTGCCAGCAGCTGCACCGCCGG
GGGCCCCCTCAACCTCTGCGAGGCCTGTGACAGCAAGTTCCACAGCACCATGCATTATGAT
GGGCATGTCCGCTTCGACCTTCCCCACAAGGCTCTGTGCTGGCCCGAACGTGTCCACC
CGGTTCATGCCCGCCGCGCACCAGCCCGCAGTGGACTTGGAGGAGGAGGAGGAGGAGAGC
TCTGTGGATGGCAAAGGGGACCGGAAGAGCACAGGCCTGAACTCTCCAAGAAGAAAGCA
AGGAGGAGACACCGGATGACCCAAGCAAGGAATGCTTCACTCTGAAATTTGACCTGAAT
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CTGCCTGTATTTGAAAGGAAGGGCATTGCGCTGGGCAAAGTGGACATCTACCTGGACCAG
TCCAACACACCCCTGTCCCTCACCTTCGAGGCCTACAGGTTTCGGGGGACACTACCTTCGT
GTCAAAGCCCCAGCCAAGCCTGGAGATGAGGGCAAGGTGGAGCAGGGCATGAAGGACTCC
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GTGGACGCCCAGAGCCGCGGGGAGAGCCTGGACATCTTGCCCTGGCCGCCGCCGAAG
AACATGTCGGAGTTCTTGGGGAGGCGAGCATCCCCGGGCAGGAGCCCCCACGCCCTCC
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CGGGCGGCCAGTCGCTTCAGCGGCTTTTTCAGCTCCGGCCCCAGCACCAGCGCCTTTGGC
CGGGAGGTAGACAAGATGGAGCAGCTGGAGGGCAAGCTGCACACCTACAGCCTCTTCGGG
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GAAGACGAGGATGAGGACAATGCCTGCCTGAGGCTGGAGGACAGCTGGCGGGAGCTCATT
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CTGCACACGGAGGCTCCTACATCAGGAACTGCGGGTGATCATCAACCTGTTCTGTGC
TGCTCTCTGAACCTGCAAGAGTCAGGGCTGCTGTGTGAGGTGGAGGCGGAGCGCTGTT
AGCAACATCCCGAGATCGCGCAGCTGCACCGCAGGCTGTGGGCTAGCGTGATGGCGCCG
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TTCAAGATGTTTCGGCTCGCTCTTCAAGCCCTACATCCGCTACTGCATGGAGGAGGAGGGC
TGCATGGAGTACATGCGCGGCCTGCTGCGGACAACGACCTCTTCCGGGCCTACATCAGG
TGGGCGGAGAAGCACCCACAGTGCCAGAGGCTGAAGCTGAGCGACATGCTGGCCAAACCC
CACCAGCGGCTCACCAAGTACCCGCTGCTGCTCAAGTCGGTGCTGAGGAAGACCGAGGAG
CCGCGCGCCAAGGAGGCCGTCGTCGCCATGATCGGCTCCGTGGAGCGCTTCATCCACCAC

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GTGAACGCGTGTCATGCGGCAGCGGCAGGAGCGGCAGCGGCTGGCGGCCGTGGTGAGCCGC
ATCGACGCCTACGAGGTGGTGGAAAGCAGCAGCGACGAAGTGGACAAGCTCCTGAAGGAA
TTTCTGCACCTGGACTTGACAGCGCCCATCCCTGGCGCCTCCCCGGAGGAGACGCGGCAG
CTGCTGCTGGAGGGGAGCCTGAGGATGAAGGAGGGGAAGGACAGCAAGATGGATGTGTAC
TGCTTCCTCTTCACGGATCTGCTGTTGGTGACCAAAGCAGTGAAGAAGGCAGAGAGGACC
AGGGTCATCAGGCCACCCCTGCTCGTGGACAAGATTGTGTGCCGGGAGCTACGGGACCCT
GGGTCCCTCCTTATCTACCTGAATGAGTTTCACAGTGTGTAGGGGCTACACGTTC
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CAGCTGCAACAGCTGCGTGACAGGAGCCCCAGGCAGTCAGCAGCCCCTGCAGAGCCTG
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ACCTCCTTACAAGACTTTGTGGCCCCAGGCCCAATGGCAGAGCTAGTGCCTCGGGCCCCA
GAGTCCCCACGAGTTCCTTCCCCCTCCACCCTCGCCCCGTCTCCGCCGCCGACCCCTGTC
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CTGCTGGCAGGGGCTGGCACCCATGGGACACCCTTGCCCCAGCCGAGCCTGTGAGAG
CTCTGCCTGGCTGTTCCAGCCCCAGGTATTAGGACTCAGGGCTCCCCTCAGGAAGCTGGG
CCCAGCTGGGATTGCCGAGGGGGCCCTAGCCCTGGCAGCGGTCTGGGCTAGTCGGCTGC
CTGGCCGGGGAACCTGCAGGCTCCACAGGAAGAGGTGTGGAGACCTGCCCTCGGGGGCC
TCTCCCAGGGTCCAGCCTGAGCCCCCACCAGGGTCTCTGCCAGCACAGGAAGCTGACC
CTGGCCAGCTCTACCGAATCAGGACCACCCTGCTGCTTAACCTCCACGCTCACTGCCTCG
GAGGTCTGA
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|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Restriction Sites:</b>     | Please inquire                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>ACCN:</b>                  | NM_001042663                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>OTI Disclaimer:</b>        | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).                                                                                                                                                                          |
| <b>OTI Annotation:</b>        | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.                                                                                                                                                                                                                                                      |
| <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_001042663.1, NP_001036128.1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>RefSeq Size:</b>           | 4761 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

RefSeq ORF: 3189 bp

Locus ID: 57449

UniProt ID: [O94827](#)

Cytogenetics: 1p36.31

**Gene Summary:** This gene encodes a protein that activates the nuclear factor kappa B (NFkB1) signaling pathway. Mutations in this gene are associated with autosomal recessive distal spinal muscular atrophy. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2012]  
Transcript Variant: This variant (3) contains a different segment for its 5' UTR and 5' coding region, compared to variant 2. The resulting protein (isoform c) has a shorter N-terminus when it is compared to isoform b.