

## Product datasheet for **SC127751**

### CCDC25 (NM\_018246) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CCDC25 (NM_018246) Human Untagged Clone
Tag:	Tag Free
Symbol:	CCDC25
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_018246, the custom clone sequence may differ by one or more nucleotides

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ATGGTGTCTACTTCACCAGCAGCAGCGTTAATTCATCTGCCTACACTATTTACATGGGAAAAGATAAAT
ATGAAAATGAAGATCTGATCAAGCATGGCTGGCCTGAAGATATCTGGTTTCATGTGGACAACTCTCTTC
GGCTCATGTATACCTTCGATTACATAAGGGAGAGAATATAGAAGACATCCCAAAGGAAGTCTGATGGAC
TGTGCCACCTTGTGAAGGCCAATAGCATTCAAGGCTGCAAGATGAACAACGTTAATGTGGTATATACGC
CGTGGTCTAACCTGAAGAAAACAGCTGACATGGATGTGGGCAGATAGGCTTTCACAGGCAGAAGGATGT
AAAAATTGTGACAGTGGAGAAGAAAGTAAATGAGATCCTGAACCGATTAGAAAAGACCAAAGTCGAGCGG
TTCCCAGACCTAGCAGCAGAGAAAAGAATGCAGAGATCGTGAAGAGAGGAATGAGAAAAAAGCCCAAATTC
AGGAAATGAAAAAGAGAGAAAAAGAAGAAATGAAGAAGAAGAGGAAATGGATGAACTTAGGAGCTATTC
ATCACTAATGAAAGTTGAAAATATGTCTTCAAATCAGGATGGCAATGATTGAGATGAATTCATGTAA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_018246 unedited AATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGGAGAATCTGGTTTCATGTG GACAAACTCTCTTCGGCTCATGTATACCTTCGATTACATAAGGGAGAGAAATATAGAAGAC ATCCCAAAGGAAGTGCTGATGGACTGTGCCACCTTGTGAAGGCAATAGCATTCAAGGC TGCAAGATGAACAACGTTAATGTGGTATATACGCCGTGGTCTAACCTGAAGAAAAACAGCT GACATGGATGTGGGCAGATAGGCTTTCACAGGCAGAAGGATGTAAAAATTGTGACAGTG GAGAAGAAAGTAAATGAGATCCTGAACCGATTAGAAAAGACCAAAGTCGAGCGTTCCCA GACCTAGCAGCAGAGAAAGAATGCAGAGATCGTGAAGAGAGGAATGAGAAAAAGCCCAA ATTCAGGAAATGAAAAAGAGAGAAAAAGAAGAAATGAAGAAGAAGAGGAAATGGATGAA CTTAGGAGCTATTCATCACTAATGAAAGTTGAAAATATGTCTTCAAATCAGGATGGCAAT GATTCAGATGAATTCATGTAAGGAGAGAAAAGGAGAAAAGGACCTTTGAAAGATGTGAAT GTAGAGACAATTGCAGACCTTTTGGTTTCATCTGTGTTCTGAAGTATAAAATACAACCAA AATTCTACCTTCCTACCCAGAAATTATTGATTCTCAAGTTTTAAANAAAATGTACCT TTTTTGCTGACGAAAAGGATCAGATATGTATAANATAGTTGAAGTGTGACAGCATATACT TAAGTGAAGTGTGTTTCCAGACATGTCTGGTACCTTGTGAAGCANGCTGCCCTTTGT CTTGAGAAAGACTNTAAATNGAACAGCTCTGAAAAGTACTCTGCTGCTCTGGTCTATCC TGAACAGATGTCTTGAACACTTATATCTAANATATCTNACTTCTGTAAAAAACATG TNGTGGGTATATAGCA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_018246
<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>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>	<a href="#">NM_018246.1</a> , <a href="#">NP_060716.1</a>
<b>RefSeq Size:</b>	3653 bp
<b>RefSeq ORF:</b>	423 bp
<b>Locus ID:</b>	55246
<b>UniProt ID:</b>	<a href="#">Q86WR0</a>
<b>Cytogenetics:</b>	8p21.1

**Gene Summary:**

Transmembrane receptor that senses neutrophil extracellular traps (NETs) and triggers the ILK-PARVB pathway to enhance cell motility (PubMed:32528174). NETs are mainly composed of DNA fibers and are released by neutrophils to bind pathogens during inflammation (PubMed:32528174). Formation of NETs is also associated with cancer metastasis, NET-DNA acting as a chemotactic factor to attract cancer cells (PubMed:32528174). Specifically binds NETs on its extracellular region, in particular the 8-OHdG-enriched DNA present in NETs, and recruits ILK, initiating the ILK-PARVB cascade to induce cytoskeleton rearrangement and directional migration of cells (PubMed:32528174). In the context of cancer, promotes cancer metastasis by sensing NETs and promoting migration of tumor cells (PubMed:32528174). [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).