

Product datasheet for **SC114788**

SEC24D (NM_014822) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEC24D (NM_014822) Human Untagged Clone
Tag:	Tag Free
Symbol:	SEC24D
Synonyms:	CLCRP2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_014822, the custom clone sequence may differ by one or more nucleotides

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ATGAGTCAACAAGGTTACGTGGCTACACCTCCGTATTCTCAGCCTCAGCCTGGAATAGGCCCTTCTCCAC
CTCATTATGGGCACTATGGGGATCCGTCGCACACAGCATCTCCAACAGGTATGATGAAGCCAGCAGGGCC
TTTGGGGCCACCGCCACTAGGGGAATGTTGCCTCCGGGTCACCCACCTCTGGACCCCATCAGTTTGGT
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CATCCTCACATGCACCATACCAACCCTCTGCACAATCTTCTTATCCAGGTCTATATCCACTTCATCTGT
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CAGAAATGATATTGAAAAGAAAATAGGCTTTGATGCTATTATGAGGGTTCGTACCAGCACAGTTTCAGA
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TGGTAGAAGACAAGGACTTTACGGAGGCTCTTCTTATGTGGATTCTTTGTTGTTCACAAGGAGAT
CTGTCAGCTGCTTAATTA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_014822 unedited GTAATTTGGTAAACGACTCACTATAGGGCGGCCGCAATCGGCACGAGGCCAGCCCAG CTGCAACTCCGAGCGTGAGTCCAGGCTAAGGGGACGCCGGCGGGGAAGAGGCGCGGCGG GAGAAGCGACCGCAGCGGGAGCCCGGCCACCGAGGGCTGCCGGCACTAGGCGCAGAGCCG CCAGCGCTCGGAAGCCCGGGGTGCGGGAGCGGGAACAGACTTCTTTGTAGAATTATC CTATGGAATGATATTTTCATAATGAGTCAACAAGTTACGTGGCTACACCTCCGTATTCT CAGCCTCAGCCTGGAATAGGCCTTTCTCCACCTATTATGGGCACTATGGGGATCCGTCG CACACAGCATCTCCAACAGGTATGATGAAGCCAGCAGGGCCTTTGGGGCCACCGCCACT AGGGGAATGTTGCCTCCGGTCCCCACCTCCTGGACCCCATCAGTTTGGTCAGAATGGA GCTCATGCCACTGGTCACCCTCCCCAAAGATTTCCAGGCCCTCCACCTGTCAACAATGTG GCATCCTCACATGCACCATACCAACCCTCTGCACAATCTTCTTATCCAGGTCCTATATCC ACTTCATCTGTCAACCAGCTGGGAGCCAGCTCAGTGCTATGCAAATCAACAGCTATGGT TCAGGCATGGCTCCTCAAGCCAGGGACCCCTGCCCTCTGTCAAGCCACATCATTGCAG ACTTCTCCAGACCTCCACAGCGTCCATTTTGCAGCCTGGATCTCAGGCTTTCCCCAC CCACCCACCACACTCAATGGTCTGGTGCCTCACCTTTGGCTCTACCAATGAACAGACA GNATGGGCTCTTTGGGCCTCCTCCTCAAGCCAGTACCAGCCCCACCTTTCCAGGC CAGACCTGGGGGCTGGAATCCTCCGAGCAACGCAACTCCTGGTCCCCAAAAGCCAGG GC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_014822 unedited GCCGCGCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTAAAATTATACGAAGTGA TTTATTGATACTGGTTAACATCCATTATATACAGGTAGAACTTTCAAAATTGTACAAAG AACCATTAAGCATATTGATAAAGACAGTTTTACAGACAAAACAACCTGGAAAATAGTTTTA ACATACACAATATATAATTATGAAAAAATGTAGAACACATATTGTTCTACCAGATAAAT CCCAAGGTTATTAAGTCTGCTATGCAGACCTAAGTTGAAAAATGTGTTCAATGGAGT TACATGGTTTTAGAAAATTAAGTATAATGTAAAAATTAAGCTTTTTTTCTCATTGCAAT TGGGAGAGGAACTGAGACAACTTTTACCCAAATCTATACAGTTTAAAAATAATTTAT ATGTCTAGCATAAAGAAAATTGAGAATGTTTATGGTCTGTAACTTTGCCTTTTATGAA ATGCAAACCACATCAGTTTTAAAAATTAGAACTGTGCAATCAGAAACAGATTGTTCCCT TTATGGTACAATTGTACCTTAATTGGCTTATACCTGAGCACAAAGCTGAAGTTCTAAA TGCCATCTCTTCCTGGAAGTTATTCTGAAAATGAGCAAGAAATCAAACTAGCCTATTA TCATCTAGAAAATTAGGCACCAAGAAGGAGATTATCTCCTTGGAAATGCAACATCAATGA CAGAGAAGTTTCAATTAATTAAGCAGCTGACAGATCTCCTTGTGAAACACACAAGGAAATC CACATAGAGAGCCTCGTAAAGCCTTTGTCTTTACCAGAACTGTCGAAAAACATTCTGGGT GTCTCGCTGCTTACAATGTGAGCTCATGATATGGNCTCTTTTGTGATANACCATATATCC TGAGTGTGAAGNATGGGTTCCACTCAGCAGATGCATATTGGGTGT</p>
Restriction Sites:	ECoRI-NOT
ACCN:	NM_014822
Insert Size:	4230 bp
OTI Disclaimer:	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).
Components:	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).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

RefSeq: [NM_014822.1](#), [NP_055637.1](#)

RefSeq Size: 3988 bp

RefSeq ORF: 3099 bp

Locus ID: 9871

UniProt ID: [O94855](#)

Cytogenetics: 4q26

Domains: zf-Sec23_Sec24, Sec23_trunk, Sec23_helical, Gelsolin

Gene Summary: The protein encoded by this gene is a member of the SEC24 subfamily of the SEC23/SEC24 family, which is involved in vesicle trafficking. The encoded protein has similarity to yeast Sec24p component of COPII. COPII is the coat protein complex responsible for vesicle budding from the ER. This gene product is implicated in the shaping of the vesicle, and also in cargo selection and concentration. Mutations in this gene have been associated with Cole-Carpenter syndrome, a disorder affecting bone formation, resulting in craniofacial malformations and bones that break easily. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2015]
Transcript Variant: This variant (1) represents the shorter transcript and encodes the shorter isoform (1).