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Product datasheet for SC324093

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_014822.1
CCACGCGTCCGAGCCCAGCTGCAACTCCGAGCGTGAGTCCAGGCTAAGGGGACGCCGGCC
GGGGAAGAGGCGCGGCGGGAGAAGCGACCGCAGCGGGAGCCCGGCCACCGAGGGCTGCCG
GCACTAGGCGCAGAGCCGCCAGCGCTCGGAAGCCCGCGGGGTGCGGGAGCGGGAACAGAC
TTCTTTTGTAGAATTATCCTATGGAATGATATTTTCATAATGAGTCAACAAGGTTACGTG
GCTACACCTCCGTATTCTCAGCCTCAGCCTGGAATAGGCCTTTCTCCACCTCATTATGGG
CACTATGGGGATCCGTCGCACACAGCATCTCCAACAGGTATGATGAAGCCAGCAGGGCCT
TTGGGGGCCACCGCCACTAGGGGAATGTTGCCTCCGGGTCCCCCACCTCCTGGACCCCAT
CAGTTTGGTCAGAATGGAGCTCATGCCACTGGTCACCCTCCCCAAAGATTTCCAGGCCCT
CCACCTGTCAACAATGTGGCATCCTCACATGCACCATACCAACCCTCTGCACAATCTTCT
TATCCAGGTCCTATATCCACTTCATCTGTCACCCAGCTGGGCAGCCAGCTCAGTGCTATG
CAAATCAACAGCTATGGTTCAGGCATGGCTCCTCCAAGCCAGGGACCCCCTGGCCCTCTG
TCAGCCACATCATTGCAGACTCCTCCACGACCTCCACAGCCTTCCATTTTGCAGCCTGGA
TCTCAAGTTCTTCCACCACCACCCACCACACTCAATGGTCCTGGTGCCTCACCTTTGCCT
CTACCAATGTACAGACCAGATGGGCTCTCTGGGCCTCCTCCTCCAAATGCCCAGTACCAG
CCCCCACCTCTTCCAGGCCAGACCTTGGGTGCTGGATATCCTCCGCAGCAGGCAGCCAAC
TCTGGTCCCCAGATGGCAGGCGCACAACTGTCTTACCCAGGAGGCTTCCCTGGAGGTCCT
GCACAGATGGCTGGTCCGCCACAGCCCCAGAAGAAGCTGGATCCTGACTCTATCCCTAGC
CCAATCCAGGTGATTGAGAATGATAGAGCCAGCAGAGGAGGACAAGTTTATGCCACCAAC
ACCAGAGGCCAGATCCCTCCCCTGGTCACTACAGATTGCATGATACAAGACCAAGGAAAT
GCCAGTCCTCGATTCATCCGTTGTACAACATACTGTTTTCCATGCACGTCAGATATGGCT
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GAGAGTCCCCTTTACTTGGTAAATCACGGCGAGAGTGGACCAGTCAGATGCAACAGGTGC
AAGGCCTACATGTGCCCATTTATGCAGTTCATCGAAGGAGGAAGGAGATATCAGTGTGGA
TTTTGCAACTGTGTGAATGATGTTCCACCATTCTATTTCCAACATCTGGACCACATTGGA
AGAAGACTGGACCACTATGAGAAACCAGAGTTATCTCTAGGATCTTATGAATATGTTGCC
ACTTTGGATTATTGCAGAAAGAGTAAGCCTCCCAACCCACCAGCCTTTATCTTCATGATT

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GATGTTTCATATAGTAACATAAAGAATGGACTTGTCAAGCTCATATGTGAAGAACTGAAG
ACCATGCTGGAAAAAATTCCAAAGGAAGAGCAAGAAGAGACGTCTGCAATTCGAGTGGGT
TTTATCACATATAACAAAGTTCTCCATTTCTTTAATGTGAAGAGTAATCTGGCCCAGCCT
CAGATGATGGTGGTGACTGATGTTGGAGAAGTCTTTGTTCCTTTGTTGGATGGTTTCCTT
GTCAACTATCAAGAATCCCAATCTGTGATTCATAATTTGTTGGACCAGATTCCAGACATG
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CTGGGGCTGGTTCCTCAGCTCACTGGAGGAACCCTTTACAAATACAACAATTTCCAGATG
CACTTGGATAGACAACAATTTTTGAACGACCTCAGAAATGATATTGAAAAGAAAATAGGC
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GGAATCTTGATGAACAACACCACCGATGTAGAAATGGCTGCCATCGATTGTGACAAGGCA
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AATTGCTTGTTGAAAAACTGTGTACTACTCAGCAGACCAGAGATCTCAACTGATGAACGA
GCATACCAGAGACAGCTGGTCATGACCATGGGTGTGGCTGACTCTCAGCTTTTCTTCTAC
CCACAACTTCTGCCCATACACACGTTAGATGTCAAGAGTACAATGTTACCTGCTGCCGTT
CGTTGCTCTGAGTCCCGTCTTTCAGAAGAAGGAATATTCTTACTGGCTAATGGTCTACAC
ATGTTCCTGTGGTTGGGAGTAAGCAGCCCACCAGAACTGATCCAAGGAATATTTAATGTG
CCATCTTTTGCACATATCAACACAGATATGACATTGCTGCCTGAAGTGGGAAACCCATAC
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CTCACAATTGTAAAGCAGCGAGAACAACCAGAAATGGTTTTCCGACAGTTCCTGGTAGAA
GACAAAGGACTTTACGGAGGCTCTTCTTATGTGGATTTCCTTTGTTGTGTTCACAAGGAG
ATCTGTCAGCTGCTTAATTAATTGAAACTTCTCTGTCATTGATGTTGCATTTCCAAGGAG
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TCATTTTCAGAATAACTTTCCAGGAAGAGATGGCATTTAGAACTTCAGCTTTGGTGCTCA
GGTATAAAGCCAATTAAGGTACAATTGTACCATAAAGGGAACAATCTGTTTCTGATTGCA
CAGTTTCTAATTTTTAAAACTGATGTGGTTTGCATTTCATAAAAGGCAAAGTTTACAGAA
CCATAAACATTCTCAATTTTCTTTATGCTAGACATATAAATTATTTTTCAAACTGTATAG
ATTTGGGGTAAAAAGTTGTCTCAGTTCCTCTCCCAATTGCAATGAGAAAAAAAAGCTTAA
TTTTTACATTATACTTAATTTTCTAAAACCATGTAACTCCATTGAACACATTTTTCAACT
TAAGGTCTGCATAGCAGACTTTTAATAACCTTGGGATTTATCTGGTAGAACAATATGTGT
TCTACATTTTTTTCATAATTATATATTGTGTATGTTAAAACTATTTTCCAGTTGTTTTGT
CTGTAAAACTGTCTTTATCAATATGCTTAATGGTTCTTTGTACAATTTTGAAAGTTTCTA
CCTGTATATAATGGATGTTAACCAGTATCAATAAATCACTTCGTATAATCTTAAAAAAAA
AAAAAAA

Restriction Sites: ECoRI-NOT

ACCN: NM_014822

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).

OTI Annotation:	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.
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).