OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC115274

SLC30A4 (NM_013309) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC30A4 (NM_013309) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC30A4
Synonyms:	znT-4; ZNT4
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC115274 sequence for NM_013309 edited (data generated by NextGen Sequencing)

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ATGGCCGGCTCTGGCGCGTGGAAGCGCCTCAAATCTATGCTAAGGAAGGATGATGCGCCG
CTGTTTTTAAATGACACCAGCGCCTTTGACTTCTCGGATGAGGCGGGGGACGAGGGGCTT
TCTCGGTTCAACAAACTTCGAGTTGTGGTGGCCGATGACGGTTCCGAAGCCCCGGAAAGG
CCTGTTAACGGGGCGCACCCGACCCTCCAGGCCGACGATGATTCCTTACTGGACCAAGAC
TTACCTTTGACCAACAGTCAGCTGAGTTTGAAGGTGGACTCCTGTGACAACTGCAGCAAA
CAGAGAGAGATACTGAAGCAGAGAAAGGTGAAAGCCAGGTTGACCATTGCTGCCGTTCTG
TACTTGCTTTTCATGATTGGAGAACTTGTAGGTGGATACATTGCAAATAGCCTAGCAATC
ATGACAGATGCACTTCATATGTTAACTGACCTAAGCGCCATCATACTCACCCTGCTTGCT
TTGTGGCTATCATCAAAATCACCAACCAAAAGATTCACCTTTGGATTTCATCGCTTAGAG
GTTTTGTCAGCTATGATTAGTGTGCTGTTGGTGTATATACTTATGGGATTCCTCTTATAT
GAAGCTGTGCAAAGAACTATCCATATGAACTATGAAATAAATGGAGATATAATGCTCATC
ACCGCAGCTGTTGGAGTTGCAGTTAATGTAATAATGGGGTTTCTGTTGAACCAGTCTGGT
CACCGTCACTCCCATTCCCACTCCCTGCCTTCAAATTCCCCTACCAGAGGTTCTGGGTGT
GAACGTAACCATGGGCAGGATAGCCTGGCAGTGAGAGCTGCATTTGTACATGCTTTGGGA
GATTTGGTACAGAGTGTTGGTGTGCTAATAGCTGCATACATCATACGATTCAAGCCAGAA
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TTTGGCATGTATAGATGTACTATTCAGCTTCAGAGTTACAGGCAAGAAGTGGACAGAACT
TGTGCAAATTGTCAGAGTTCTAGTCCCTAA

Clone variation with respect to NM_013309.4
915 c=>t
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_013309 unedited
GGCGGCCGCGAATTCGGCACCAGGGGAGGGACGCGCGGCACTGCCCTCGAGAACTGGCGC
TCCGGTGAAGTAGGCGCCGCCGGCCGTCCGCCTCCCCCAAGCCGTTCCGCACCGCGGCCG
CTCAGCCTCTGCCATGGCCGGCTCTGGCGCGTGGAAGCGCCTCAAATCTATGCTAAGGAA
GGATGATGCGCCGCTGTTTTTAAATGACACCAGCGCCTTTGACTTCTCGGATGAGGCGGG
GGACGAGGGGCTTTCTCGGTTCAACAAACTTCGAGTTGTGGTGGCCGATGACGGTTCCGA
AGCCCCGGAAAGGCCTGTTAACGGGGCGCACCCGACCCTCCAGGCCGACGATGATTCCTT
ACTGGACCAAGACTTACCTTTGACCAACAGTCAGCTGAGTTTTGAAGGTGGACTCCTGTG
ACAACTGCAGCAAACAGAGAGAGATACTGAAGCAGAGAAAGGTGAAAGCCAGGTTGACAT
TGCTGCCGTTCTGTACTTGCTTTTCATGATTGGAGACTTTGGAGGTGGATACATTGCANA
TAGCCTAGCATCATGACAGATGCACTTCATATGTTAACTGACCTAAGCGCCATCATACTC
ACCCTGCTTGCTTTTGTGGCTATCATCAAAATCACCACCAAAAGATTCACCTTTGGATTC
ATGNTTTAAAAGGGGTTTGCACATAAATAGNGGGGCTGGGTGGTGTATATACTAATGGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_013309 unedited
TTTTTTTTTTTTACGAAACTGTACTATTTTTTATTTAATAGAACCACAGTGGCAAAACAT
TACTTTAATAAGGGTATAGGAAAATTACAATGGGAAAGTGGCAAATCCAGCACATATTTA
TATATATATATATCCTTGGATCTTAATAAACAGGGACAAACCCCAGTTTAAAAATTTTTC
TAAAATCAATCATATGCAAAATCCCTGGTTTCTGAAGGGGCATATGATAAAGTTTATACA
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TTTCCAAATATACAGTTTTTTCCAGGTAAAAAGATGACATACTGGCACATTTAAATTTTG
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AAACTGGAAAAGTCTCCATAAATGTTTTCCAATCTTATAAAAAAGCAAATTGGCCCTAAA
TGATGGGAACAGCAGGTTAAACCCTTTACAAGTAAAAATTCAGGGACTGGCAGGCCTGAG
TGCACACATGTAATTAAATACTGAGGAACTCCCACAACACTGTTTTCTAATTTGCATGCT
CCCACAAACATCACAAATAATATACCTGATTGGCAATCAGAAAAACAAATCTCAAGACCT
GTTTGTCAAGATTCATACAACACATCTGGAGTTAGGGTTTGCAAATTGTTTTTTGGCTAC
AAAGATATTAAACTTTATCAATTATTCGAAAATCAGACTTGCCTCCCCTCAAAATAGCAT
ATAGGGATGGGGTGTTATTTAATGACAAATACCAACTGCCTCATGACCTGGGTTTGCTTT
AAAACAAATGACCCAATGACCTATCTTCTTTTAAGAAACACCTTGAACCTTTAAATTGGT
TTAAAAATAAAACCAN

Restriction Sites: NotI-NotI

ACCN: NM_013309

Insert Size: 6600 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_013309.4, NP_037441.2
RefSeq Size:	4290 bp
RefSeq ORF:	1290 bp
Locus ID:	7782
UniProt ID:	O14863
Cytogenetics:	15q21.1
Domains:	Cation_efflux
Protein Families:	Transmembrane
Gene Summary:	Zinc is the second most abundant trace metal in the human body. It is an essential element, serving both a structural role, as in the formation of zinc fingers in DNA-binding proteins, and a catalytic role in metalloenzymes, such as pancreatic carboxypeptidases (e.g., MIM 114852), alkaline phosphatases (e.g., MIM 171760), various dehydrogenases, and superoxide dismutases (e.g., MIM 147450). SLC30A4, or ZNT4, belongs to the ZNT family of zinc transporters. ZNTs are involved in transporting zinc out of the cytoplasm and have similar structures, consisting of 6 transmembrane domains and a histidine-rich cytoplasmic loop (Huang and Gitschier, 1997 [PubMed 9354792]).[supplied by OMIM, Mar 2008]