

## Product datasheet for **SC124778**

### Glucuronic Acid Epimerase (GLCE) (NM\_015554) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Glucuronic Acid Epimerase (GLCE) (NM_015554) Human Untagged Clone
Tag:	Tag Free
Symbol:	Glucuronic Acid Epimerase
Synonyms:	HSEPI
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_015554, the custom clone sequence may differ by one or more nucleotides

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ATGCGTTGCTTGGCAGCTCGGGTCAACTATAAGACTTTGATTATTATCTGCGCACTTTCACCTTTGGTCA
CAGTACTTTTGTGAATAAGTGTCCAGTGACAAAGCAATCCAGTTTCCACGGCGTTTCGAGTAGTGGCTT
CAGAGTGGATGGGTTTAAAAAAGAGCAGCAGCATCTGAGAGTAACTATATGAACCAGTGGCCAAA
CAACAGTCTGAGGAAGCATTCCCTCAGGAACAGCAGAAAGCACCCCTGTTGTTGGGGGCTTCAATAGCA
ATGTGGGAAGTAAAGTGTAGGGCTCAAATATGAAGAAATTGACTGTCTCATAAATGATGAACACACAAT
TAAAGGGAGACGAGAGGGGAACGAAGTCTTTCTCCATTCACTTGGGTTGAGAAATATTTTGATGTTTAT
GGAAAGGTGGTTCAGTATGATGGCTATGATCGGTTTGAATTCTCTCATAGCTATTCCAAAGTCTATGCAC
AGAGAGCCCCCTATCACCCGATGGTGTGTTTATGTCTTTGAAGGCTACAATGTGGAAGTCCGAGACAG
AGTCAAGTGCATAAGTGGGGTTGAAGGTGTCCATTATCTACACAATGGGGACCTCAAGGCTATTTCTAT
CCAATCCAGATTGCACAGTATGGATTAAGTCATTACAGCAAGAATCTAACTGAGAAACCTCTCACATAG
AGGTATATGAAACAGCAGAAGACAGAGACAAAAACAAGCCTAATGACTGGACTGTCCAAAGGGCTGCTT
TATGGCGAATGTGGCTGATAAGTCTAGATTACCAATGTCAAACAGTTTATTGCACCAGAAACCAGTGAA
GGTGTATCCTTGAACCTGGGAAACACAAAAGATTTTATTATTTCAATTTGACCTCAAGTCTTGACAAATG
GAAGTGTGTCCGTGGTTCAGAGACCACAGAAAAGAATCAGCTCTTCACTATACATTATGTCTCAAATGC
TCAGCTAATTGCTTTTAAAGAAAGAGATATATACTATGGCATTGGGCCAGAACTTCATGGAGCACAGTT
ACCAGGGACCTGGTCACTGACCTCAGGAAAGGAGTGGGCTTTTCAAACACAAAAGCTGTCAAGCCAAACCA
AAATAATGCCAAGAAGTGGTTAGGTTGATTGCAAAAAGGTAAGGGATTCCTCGACAACATTACCATCTC
TACCACAGCCACATGGCTGCATTTTGTGCTAGTATTGGCTAGTAAGGAACCAGGATGGTAAAGGT
GGCTGGCCAATTATGGTGACCCGTAAGTTAGGGGAAGGTTCAAGTCTTAAAGCCAGGATGGTAAAGGT
CCATGGCCCAAGGCAAGCCATTTCTACATTAGTCAGGGCTATCTGTTAAACAAAAGACCATATATTCTC
CAATTCAGCTTTAAGGGCAACAGCCCTTATAAGTTTCTATCTGAGCAGCATGGAGTTAAAGCTGTGTTT
ATGAATAAACATGACTGGTATGAAGAATATCCAACCACACCTAGCTCTTTTGTTTTAAATGGCTTTATGT
ATTCTTTAATTGGGCTGTATGACTTAAAGAAACTGCAGGGGAAAAACTCGGAAAAGAAGCAAGTCCCTT
GTATGAGCGTGGCATGGAATCTCTTAAAGCCATGCTGCCCTTGTATGACACTGGCTCAGGAACCATCTAT
GACCTCCGTCACCTCATGCTTGGCATCGCTCCTAACCTGGCTCGTGGGACTATCATACCACCCACATCA
ATCAGTTGCAGCTACTCAGTACCATTGATGAGTCCCAGTCTTCAAAGAATTTGTCAAGAGGTGGAAAAG
CTACCTTAAAGGCAGCAGGGCAAAGCACAACCTAG
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_015554 unedited

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GACTACCATTCTTCAAGCATCTCAGCAACTTTTTGCAGGGAAGATGTTCCACAACCAG
AATGCAGAAAAAGCTTTCCAAGAGTTTATCGAATCCCAGATCACACATTTTACTACTACA
GGNAATAAATAAACTTATTTCTCATTGGCAAAAATGTGTTGATTGTAATGTTTCCATTTT
TGATGAATAAAGATGTGTTTGGCCTAGTTATAATATAATGATTTAAAATTCACGGTACA
AAACCGCAATTACTTTTGCACCAACCTAATAAGATTAACCAAGTAGAGGTGGGATTTT
GAGAACCATGATTTCAAGGACGGAATTTGTTTGTGTCAGCTACTGCTCATAGGTAA
ATAAGAGGAAGTCCGAGAATCGATTGTTGTGTTAGCAATGTGGAAGATGTTGGTGACCT
TAAATAAGTCAAGTTGGTAGACAGATGGGATGAAAAGCTTGGTTGATATGGATTCAGGA
GAAAATGGGAGATGTGGAGACAGAATTTGACAAGAACTGAAGTTTTGATTCAGATATAT
TTTGAATTGAAACCAGAGATGTTCTAGAGTTTAGATTCTTTCATTTGATTAAGGTATGGT
CTGAATATGCGTTGCTTGGCAGCTCGGGTCAACTATAAGACTTTGATTATTATCTGCGCA
CTTTCACTTTGGTCCAGTACTTTTGTGAATAAGTGTCCAGTGACAAAGCAATNCAG
TTTNCACGGCGTTTCGAGTAGTGGCTTCAGAGTGGATGGGTTTGA AAAAAGA
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_015554 unedited ACTATGGCCGCGGCCGATTCTANAGTCGAGTT TTTTTTTTTTTTTTTTTTTTAAAAAAAAAATTTTTTTTACAGTTTTATAAAGGGGTTTT ACTTTAAGCACAAAACAATCCTTTTACTTTGTATAAAAACAAAATACCTTTCCATCGGCAA AAAATCAAGTTTTCGCTGGATAAAAACTAACATGGGCACATTGGGCTTAAACTGCAAAGC TTGTCCAGTTTTACAAAGGACTACCCTCCAAAAGGGCCCCCTGAAAACCCTTTTTTTGCAT TTTTAACATATGGCATATAACCCACCTGTCCAAGGGAAAAAAAACAAAAAACCCCCCC CGGGGGGATGAAAACCGCCCTTTCCAGGGAAACTCTCGCATTGAAAAGGAAAAGGAGC CACTTCTGGAAAGGTGGGCTTGGGTCATTTTTGCACTTGCTCTTGGGCCCTGGACGCTTT CCGCGCCAAACCCCTTTATGTACAAAACCCAAAAACAGGTCAACCTCGCCCTTATCCCA AAAACCTTCGGCTGGTTTTACCCGGAGGTACCCATAGCTCCTAACCTCAAAGGGAACCTC ACGACAAGTGGCAAATAACAACACATCTATTCCCTATAATTCTTAACCGCAATACCTCCT TCAGCACATTCAATGTTAAATTTTACCAACCCCTCCCATTCCTCAACCCAAAACAA GACCCACTTCCACTATCCAAAACCCCTAAAAATTTGTATCCTCTCAAAGCACAAAT CGAATGGCTAGTTAAGGGGACGTTTTCTTTATGGCCCCCTCCCTCCCTAAAAAAC CCTCGAAGCCTATTCCAGCGGGACTTAACCTTTAACGGCACATCTGCTTGGGACCTGC TTTTAAAAACTCCACGGGGTTGGGCCCTCCAGTCTGAN
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_015554
<b>Insert Size:</b>	5000 bp
<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>	<u>NM_015554.1, NP_056369.1</u>
<b>RefSeq Size:</b>	5043 bp
<b>RefSeq ORF:</b>	1854 bp
<b>Locus ID:</b>	26035
<b>UniProt ID:</b>	<u>O94923</u>
<b>Cytogenetics:</b>	15q23
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Heparan sulfate biosynthesis, Metabolic pathways

**Gene Summary:**

Converts D-glucuronic acid residues adjacent to N-sulfate sugar residues to L-iduronic acid residues, both in maturing heparan sulfate (HS) and heparin chains. This is important for further modifications that determine the specificity of interactions between these glycosaminoglycans and proteins.[UniProtKB/Swiss-Prot Function]