

Product datasheet for **RG232961**

HAS3 (NM_001199280) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HAS3 (NM_001199280) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HAS3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG232961 representing NM_001199280
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCGGTGCAGCTGACGACAGCCCTGCGTGTGGTGGCACCAGCCTGTTTGCCTGGCAGTGTGGGTG
 GCATCCTGGCAGCCTATGTGACGGGCTACCAGTTCATCCACACGAAAAGCACTACTGTCTTCGGCCT
 GTACGGCGCCATCCTGGGCTGCACCTGCTCATTAGAGCCTTTTTGCCTTCTGGAGCACCGGCGCATG
 CGAGTGCAGCCAGGCCCTGAAGCTGCCTCCCCGCGCGGGGCTCGGTGGCACTGTGCATTGCCGCAT
 ACCAGGAGGACCCTGACTACTTGCCAAGTGCCTGCGCTCGGCCAGCGCATCTCCTTCCCTGACCTCAA
 GGTGGTCAATGGTGGTGGATGGCAACCGCCAGGAGGACGCCTACATGCTGGACATCTCCACGAGGTGCTG
 GGCGGCACCGAGCAGGCCGGCTCTTTGTGTGGCGCAGCAACTCCATGAGGCAGCGAGGGTGAGACGG
 AGGCCAGCCTGCAGGAGGCATGGACCGTGTGCGGGATGTGGTGGGGCCAGCACCTTCTCGTGCATCAT
 GCAGAAGTGGGGAGGCAAGCGCGAGGTCATGTACACGGCCTCAAGGCCCTCGGCGATTCCGTGGACTAC
 ATCCAGGTGTGCGACTCTGACACTGTGCTGGATCCAGCCTGCACCATCGAGATGCTTCGAGTCTGGAGG
 AGGATCCCAAGTAGGGGAGTCCGGGGAGATGTCAGATCCTCAACAAGTACGACTCATGGATTCCTT
 CCTGAGCAGCGTGCAGTACTGGATGGCCTTCAACGTGGAGCGGGCCTGCCAGTCTACTTTGGTGTGTG
 CAGTGTATTAGTGGGCCCTTGGGCATGTACCGAACAGCCTCCTCCAGCAGTTCCTGGAGGACTGGTACC
 ATCAGAAGTTCCTAGGCAGCAAGTGCAGCTTCGGGGATGACCGGCACCTCACCAACCGAGTCTGAGCCT
 TGGCTACCGAACTAAGTATACCGCGCGTCCAAGTGCCTCACAGAGACCCCACTAAGTACCTCCGGTGG
 CTCAACCGAAACCCGCTGGAGCAAGTCTTACTTCGGGAGTGGCTCTACAACCTCTGTGGTTCCATA
 AGCACCACTCTGGATGACCTACGAGTCAGTGGTACGGGTTTCTCCCTTCTTCCCTCATTGCCACGGT
 TATACAGCTTTTCTACCGGGCCGCATCTGGAACATTCTCCTTCTGCTGACGGTGCAGCTGGTGGGC
 ATTATCAAGGCCACTACGCCTGCTTCTTCGGGGCAATGCAGAGATGATCTTCATGTCCCTCTACTCCC
 TCCTCTATATGTCCAGCCTTCTGCCGGCAAGATCTTTGCCATTGCTACCATCAACAAATCTGGTGGGG
 CACCTCTGGCCGAAAACCAATTGTGGTGAACCTTATTGGCCTCATTCTGTGCCATCTGGGTGGCAGTT
 CTCCTGGGAGGGCTGGCCTACACAGCTTATTGCCAGGACCTGTTCACTGAGACAGAGCTAGCCTTCTTG
 TCTCTGGGCTATACTGTATGGCTGCTACTGGGTGGCCCTCTCATGCTATATCTGGCCATCATGCCCG
 GCGATGTGGGAAGAAGCCGGAGCAGTACAGCTTGGCTTTTCTGAGGTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

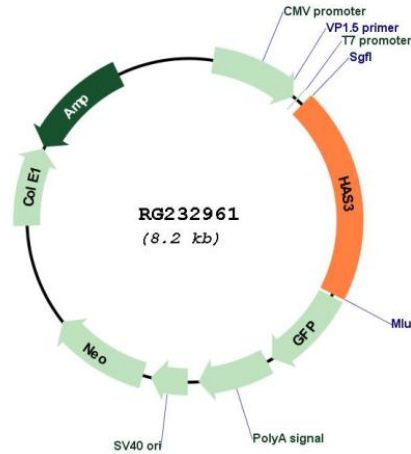
>RG232961 representing NM_001199280
 Red=Cloning site Green=Tags(s)

MPVQLTALRVVGTSLFALAVLGGILAAVYVGYQFIHTEKHYSFGLYGAILGLHLLIQSLFAFLEHRRM
 RRAGQALKLPSRRGSVALCIAAYQEDPDYLRKCLRSAQRISFPDLKVVMMVVDGNRQEDAYMLDIFHEVL
 GGTEQAGFFVWRSNFHEAGEGETEASLQEGMDRVRDVVRASTFSCIMQKWGGKREVMYAFKALGDSVDY
 IQVCSDTVLDPACTIEMLRVLEEDPQVGGVGGDVQILNKYDSWISFLSSVRYWMAFNVERACQSYFGCV
 QCISGPLGMYRNSLLQQFLEDWYHQKFLGSKCSFGDDRHLTNRVLSLGYRTKYTARSKCLTETPTKYLRW
 LNQQTRWSKSYFREWLNSLWFHKHLLWMTYESVVTGFFPFLIATVIQLFYRGRINILLFLLTVQLVG
 IIKATYACFLRGNAEMIFMSLYSLLYMSSLLPAKIFAIATINKSGWGTSGRKTIVVNFVIGLIPVSIWVAV
 LLGGLAYTAYCQDLFSETELAFLVSGAILYGCYWVALLMLYLAI IARRCGKKPEQYSLAFAEV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Plasmid Map:


ACCN: NM_001199280

ORF Size: 1659 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001199280.2](#)

RefSeq Size: 4288 bp

RefSeq ORF: 1662 bp

Locus ID: 3038

UniProt ID: [O00219](#)

Cytogenetics: 16q22.1

Protein Families: Transmembrane

Gene Summary: The protein encoded by this gene is involved in the synthesis of the unbranched glycosaminoglycan hyaluronan, or hyaluronic acid, which is a major constituent of the extracellular matrix. This gene is a member of the NODC/HAS gene family. Compared to the proteins encoded by other members of this gene family, this protein appears to be more of a regulator of hyaluronan synthesis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2010]