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 MG206489

Hyal3 (NM_178020) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hyal3 (NM_178020) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hyal3
Synonyms:	Hyl3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG206489 representing NM_178020
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATCATGCACCTAGGCCTAATGATGGTGGTGGGGTTAACCCTGTGCCTGATGCATGGCCAAGCTTTGC
TGCAGGTTCCTGAACATCCTTTTTCTGTGGTATGGAATGTACCCTCAGCAAGATGTAAGGCCCATTTTGG
TGTGCATCTGCCTCTCGATGCCCTCGGCATTGTAGCCAACCACGGCCAACATTTTCACGGCCAAAACATC
TCCATCTTCTACAAGAACCAGTTTGGTCTTTATCCTTACTTTGGACCTAGAGGTACAGCCCACAATGGGG
GAATCCCTCAGGCTGTGTCCTTAGACCACCACTTGGCACGAGCTGCCCACCAGATCCTACACAGCCTAGG
ATCTAGCTTTGCTGGCTTGGCAGTGCTGGACTGGGAAGAATGGTACCCACTCTGGGCTGGGAACTGGGGC
CCCCATCGACAAGTCTACCTGGCAGCCTCCTGGGTTTGGACACAGCAGATGTTCCCTGGCTTGGATCCTC
AGGAACAGCTCCACAAAGCCCATACTAGCTTTGAGCAGGCTGCCCGTGCACTCATGGAATACACTCTGCA
GCTGGGCCGGACACTTCGCCCGAGTGGCCTCTGGGGCTTTTACAGATATCCAGCCTGTGGCAATGGCTGG
CATAAGATGGCTTCCAACTACACAGGCCACTGCCATGCAGCCATCACCACCCAAAACACCCAACTGCGTT
GGCTCTGGGCTGCCTCCAGTGCTCTCTTCCCTAGCATCTACCTCCCACCCAGACTGCCACTTGCCTACCG
TCAGGCCTTTGTCCGACACCGCCTGGAGGAAGCCTTCCGTGTAGCCCTTTTGGAGCATTCACATCCTCTA
CCTGTTCTGGCTTATTCTCGCCTCACACACCGGAGCTCTGGGAGATTCCTGTCTCTGGACGACCTGATGC
AGACTATTGGAGTGAGTGCCGCACTGGGAACAGCTGGAGTGGTACTCTGGGGGGACCTGAGCTTCTCTAG
CTCTGAGGAAAAGTGCTGGCGTCTCCATGACTACTTAGTGGGCACTTTAGGCCCCTATGTGATCAATGTG
ACCAAGGCTGACATGGCTTGCAGTCACCAGCGATGTCATGGCCATGGTCGATGTGCCCGGAAAGACCCAG
GACAAATGGAAGCCTTTCTACATCTGCAGCCAGATGACAGTCTTGGAGCTTGGAATTCCTTCAGATGCCA
TTGTTATTCGGGTTGGGCTGGCCCTACCTGCCTGGAGCCTAAACCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

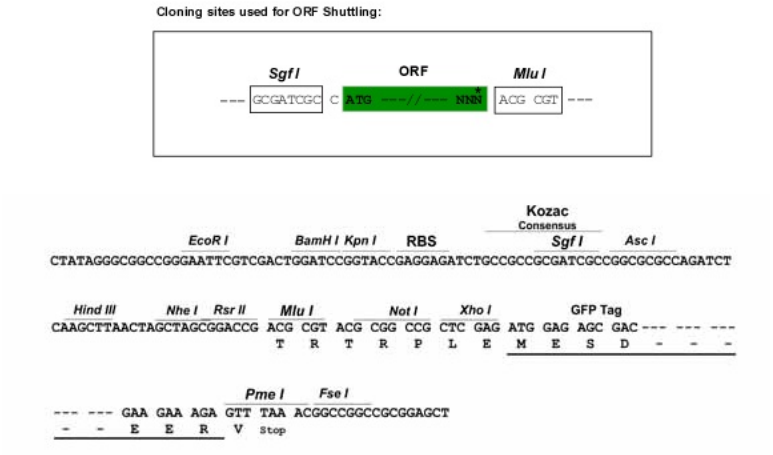
>MG206489 representing NM_178020
Red=Cloning site Green=Tags(s)

MIMHLGLMMVVGLTLCLMHGQALLQVPEHPFSVVWNVPSARCKAHFGVHLPLDALGIVANHGQHFHGQNI
SIFYKNQFGLYPYFGPRGTAHNGGIPQAVSLDHHLARAAHQILHSLGSSFAGLAVLDWEEWYPLWAGNWG
PHRQVYLAASWVWTQQMFPGLDPQEQLHKAHTSFEQAARALMEYTLQLGRTLRPSGLWGFYRYPACGNGW
HKMASNYTGHCHAAITTQNTQLRWLWAASSALFPSIYLPPRLPLAYRQAFVRHRLEEAFRVALLEHSHPL
PVLAYSRLTHRSSGRFLSLDDLMQTIGVSAALGTAGVVLWGDLSFSSSEEKCWRLHDYLVGTLGPYVINV
TKADMACSHQRCHGHGRCARKDPGQMEAFLHLQPDDSLGAWNSFRCHCYSGWAGPTCLEPKP

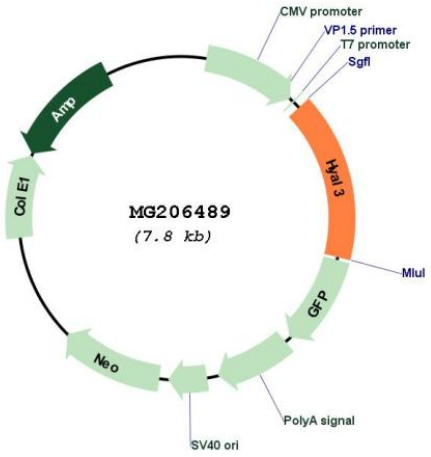
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_178020

ORF Size:	1236 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_178020.2, NP_821139.1
RefSeq Size:	1819 bp
RefSeq ORF:	1239 bp
Locus ID:	109685
UniProt ID:	Q8VEI3
Cytogenetics:	9 58.19 cM
Gene Summary:	Facilitates sperm penetration into the layer of cumulus cells surrounding the egg by digesting hyaluronic acid. Involved in induction of the acrosome reaction in the sperm (PubMed:20586096). Involved in follicular atresia, the breakdown of immature ovarian follicles that are not selected to ovulate. Induces ovarian granulosa cell apoptosis, possibly via apoptotic signaling pathway involving CASP8 and CASP3 activation, and poly(ADP-ribose) polymerase (PARP) cleavage (PubMed:18653706). Has no hyaluronidase activity in embryonic fibroblasts in vitro (PubMed:18234732). Has no hyaluronidase activity in granulosa cells in vitro (PubMed:18653706).[UniProtKB/Swiss-Prot Function]