

IDENTIFICATION

Species: *Phalaenopsis equestris*

Locus: XP_020579985

Gene Model: XP_020579985.1

Description: PeqEXPA-08

Family: Alpha Expansin

3D structure:



GENOME DATABASES

NCBI: <https://www.ncbi.nlm.nih.gov/genome/?term=Phalaenopsis+equestris>

KEGG: <https://www.genome.jp/entry/T05601>

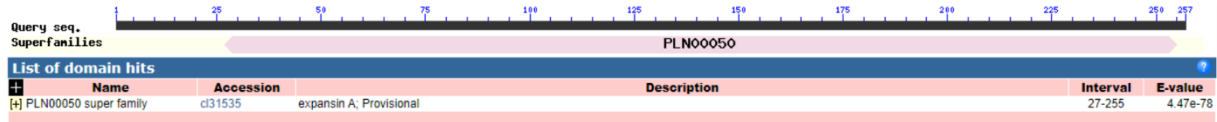
EXTERNAL RESOURCES

http://orchidbase.itps.ncku.edu.tw/est/Phalaenopsis_2019.aspx

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>PeqEXPA-08

MATIISAILLFSFFTSPSFSAPIDDKWSLATATYTRTPFQAGGGACGYTLEAEDRPEWM
SELGRNTAALSSELFRRGELCGSCFELRCVDHILFCLRGSPSVTVTAVDFCAPNYGLP
SVDGGWCNFRHHFDLSLPAFASIARSAADIVPVQYRRVRCNQSGKMRFTVRGSSFF
YEVLITNVGFDGMVAEVKVKGRRSGWIPMGRNWGQNWHCNADLSGQPLSFEVTGS
SGRRVTSYNIAPPNWRFGQTFEGKQFEG

CDS (coding sequence)

>PeqEXPA-08

TACAAACTTTAAACACAAGCCCGCCTAATGTCTGACTGTAAGTACCAAAAAAACT
ATTCAGAAAGCCCAAAAAACGAGCAAAAATCCCACCTTTCAAAACCCTAAACC
TTTTGTCTCCTCTCTCTCTCCCCCTCCCATGGCGACCATCATCTCTGCCATCCTTCT
CTTCTCCTTCTTCACCTCCCCATCCTTCTCCGCCCGGATCGATGATAAATGGAGCT
TAGCAACCGCAACATACACCAGAACCCCTTCCAGGCCGGAGGAGGAGCGTGCG
GCTACACCTTAGAAGCAGAGGACCGGCCGGAATGGATGTCGGAATTGGGGCGGA
ACACGGCGGCGCTGAGCGGCGAACTTTTCCGGCGAGGAGAGCTTTGCGGTTCTTG
CTTCGAACTCCGATGCGTCGATCACATACTTCTGTCTCCGAGGAAGCCCTTCCG
TTACCGTACCCGCCGTCGATTTCTGCGCGCCTAACTACGGCCTCCCCTCCGTCGAC
GGCGGGTGGTGAATTTCCCCCGCCACCACTTCGACCTCTCTCTTCCGGCGTTCCG
TTCTATAGCTCGCTCCGCCGCTGATATTGTCCCCGTTTCAGTACCGAAGGGTGAGGT
GCAATCAGAGCGGGAAGATGCGGTTTACGGTGAGAGGGAGCTCGTTCTTCTACG
AGGTTCTGATCACGAACGTCGGCTTTGACGGGATGGTGGCGGAGGTGAAGGTGA
AGGGGAGGAGAAGTGGTTGGATACCAATGGGGAGGAATTGGGGACAGAAGTGG
CACTGCAATGCAGATTTGAGTGGCCAACCCCTTTCCTTTGAGGTTACTGGAAGCA
GTGGAAGAAGAGTTACTTCTTACAATATAGCCCTCCCAATTGGAGATTTGGACA
GACCTTTGAAGGGAAGCAGTTTGAAGGTTAGTTATATAAAAGATTGGAGCTTTTT
GTTTTATTCAGGAAAATTTTTGGGGGATGAGTTTACAGTTTTGTGAGGAACTGTT
GATGTTTCAATTAATAGTTTTGTTACATGAATCCTAGAGGCATTTACATACACACC
ACACAGTTTTTATGTATTTGCATATCTAACAATAAGCATCCATATTTACATGCAT
ACCGCTCAAAGTTTGAACATGGAGTCAAAAATATCATCATTGCTATTCTTTGTCAT
AGCGAACTACATATATTTATGCATGTGTTTATGAAACTA

Nucleotide

>PeqEXPA-08

ATCGAGGGACTGCGGAAGGGGGTGTCCCTCATCTAATTATGGTTGGCCGAAGAA
AGAGCTTTGTAGGTCACCTGAAGTGAGATGACCGAAGAAAATAGTTTGGTTCGGTC
TACATAAGTGAGGTGACCGAGAGAGAAATTTTGGTCAGGCGACTGACACGAGAC
AGCTGACTACTTAATTGCTTTGAGATTCGTGTAGACCATATATATATATATATNNNN
NN
NNNAAATCTTTA
CCACAGCTGCAAATCTATGAAAGGGAATGAACATTTACATTCTATATTTTGAAGT
GATTATGACACTGAAGTATAATGTTACAAGTAAACATTAAAGTTCATGTGCTAGA
CATGCAAATACATAGGAATCATGTGATATAAATGTAAATCCCTCTAAAATCCTTC
CATGATTGTTGCAGGGTGAGGTGCAATCAGAGCGGGAAGATGCGGTTTACGGTG
AGAGGGAGCTCGTTCTTCTACGAGGTTCTGATCACGAACGTCGGCTTTGACGGGA
TGGTGGCGGAGGTGAAGGTGAAGGGGAGGAGAAGTGGTTGGATACCAATGGGG
AGGAATTGGGGACAGAACTGGCACTGCAATGCAGATTTGAGTGGCCAACCCCTTT
CCTTTGAGGTTACTGGAAGCAGTGGAAGAAGAGTTACTTCTTACAATATAGCCCC
TCCAATTGGAGATTTGGACAGACCTTTGAAGGGAAGCAGTTTGAAGGTTAGTTA
TATAAAAGATTGGAGCTTTTTGTATTTCAGGAAAATTTTGGGGGATGAGTTTA
CAGTTTTGTGAGGAACTGTTGATGTTCAATTAATAGTTTTGTTACATGAATCCT
AGAGGCATTTACATACACACCACACAGTTTTTATGTATTTGCATATCTAACAATA
AGCATCCATATTTACATGCATACCGCTCAAAGTTTGAACATGGAGTCAAAAATAT
CATCATTGCTATTCTTTGTCATAGCGAACTACATATATTTATGCATGTGTTTATGA
AACTAAGGCGGTGTAAGTATAAATATCAAACCTTTGAGTGTGTTGATACGTAAATAC
ATAAAAATTGTTGTATGTATGTAAATTTTTATTAAATATATATTGTTGTTGATTTG
AAGTGGAAGTATCAATTGTAATTGTAATGTATTTTCATGTAAAATGTCTTTTAAAG
AATGATTTGCAGAATGTGATATGGTTAAGGAAGATTTACATACATAACAATCAAT
TCTTATGTNN
NN
NNNTCT
CAACTTTTCTTAATTGATTGTTGAATCTAAATCTATCTAATAAATAAATCGTAAC
GAAATAATAGAGTGTGAGACCAAGAGAAGGAGAATATGAGAGAGAATGAGAGA
CTTACCCTCTCG