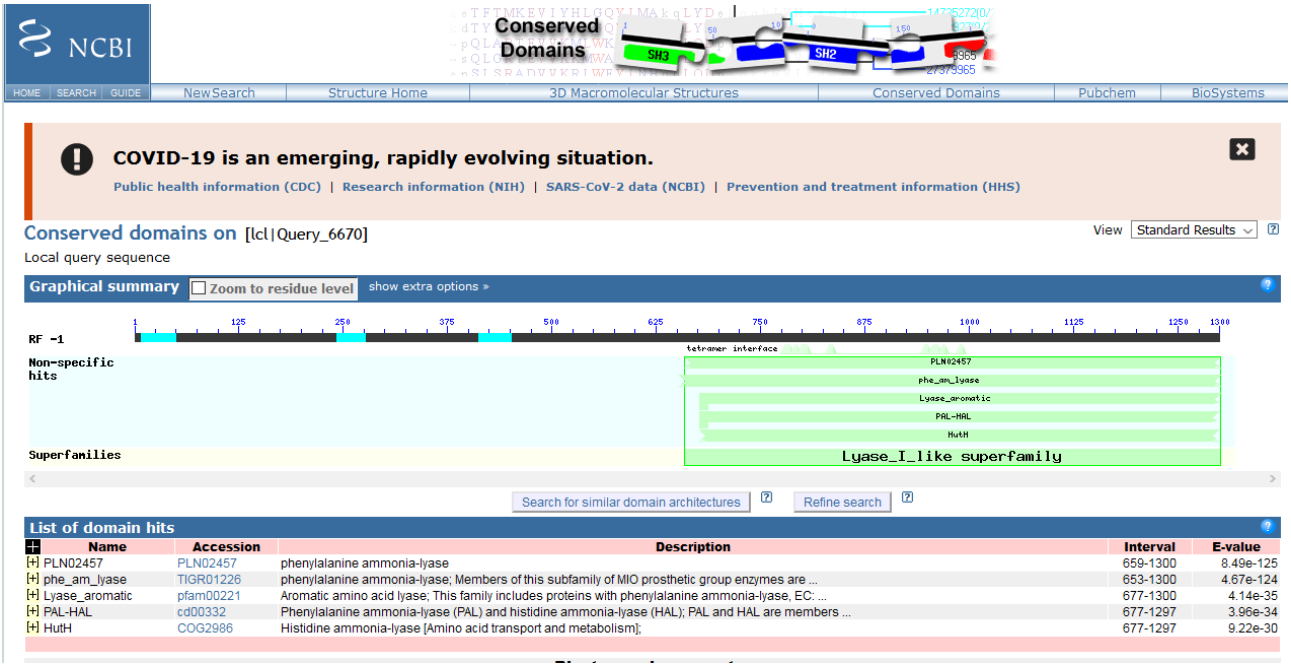
Supplementary Table 5. Procedure adopted for primers design through BLAST search.

Primers listed in Table 1 were designed in order to amplify regions (highlighted) enconding the following genes: Phenylalanine ammonia-lyase (PAL), Pathogenesis-related protein (PR1), Lipoxygenase (LOX) and Proteinase inhibitor II (PINII). Available sequences of Solanum_lycopersicum genome version 4.0 (https://solgenomics.net/organism/ Solanum_ lycopersicum/genome)matching the enzymes of interest were checked by blastx (https://blast.ncbi.nlm.nih.gov/) (down figure) and used as template for pickup primers using Primer3 and BLAST tool (https://www.ncbi.nlm.nih.gov/tools/primer-blast/).

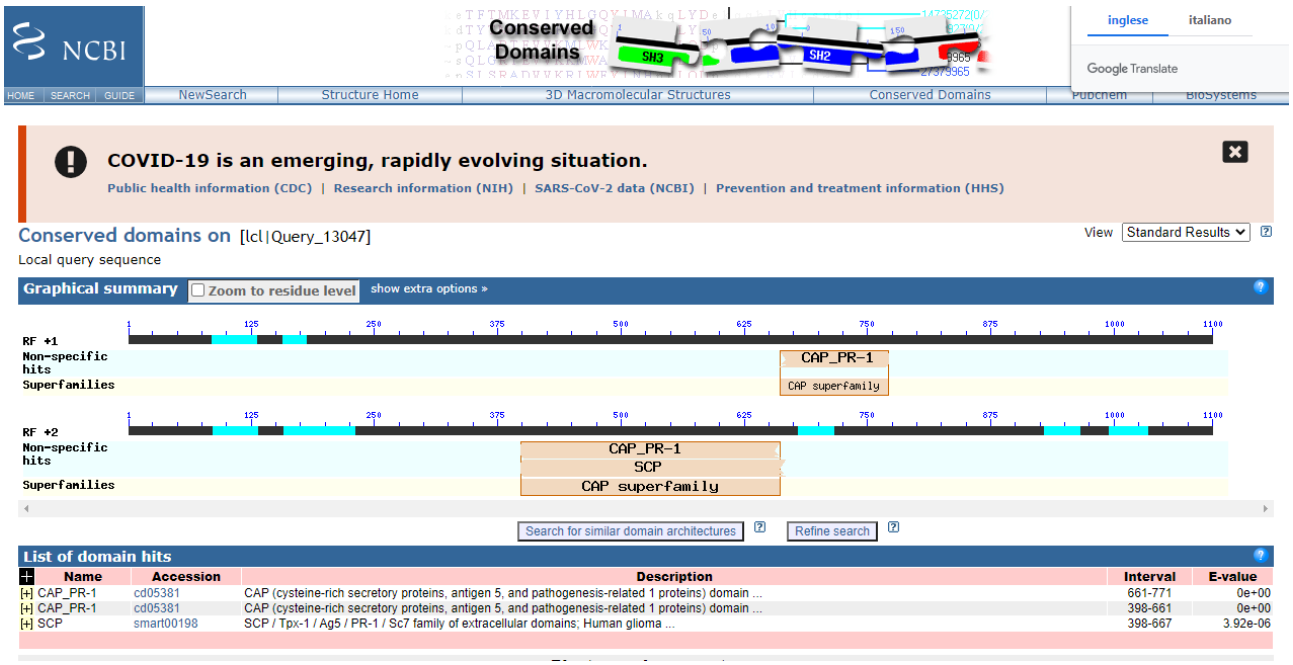
Phenylalanine ammonia-lyase (PAL)

>SL4.0ch00 1897601-1898700
ATCTTGACTTTTCTCAACTCATGAAATATTGAAGTTAATATAAAACATTATATATATATATATATATATATATAAAACAATGTAATCGTGCAATTTCATGTA
GTGTATGAAATCAAAATCGTGCAAACTTGGCGTCGTTGAAAAGATCTTTTCAAGGGCTTTCCAACCATATCAAGAATCACCTCTAATCCATTCTGAGCTA
GATATTATAGCTGTTTAAAAATGATCAAAACTCACTTCTTAAACTTAGAAGAATTTTCCTAATTTTTCCTTTCTTTACAAAAGTGATTAATACCTTAAAT
ACCAACAGATCTAACTCGAGACCAACATTAGAAACTACGAATCAACATCAATGGACATTCAAACAACTCAACCAAATAGGGATTCGACAAGATTCGTCAA
GGATTCACTTCTAATAATGTCAACAATTCTAAAACCACTGAATTGAAGCAATATTTGTGTACGGAACCATTGCGATTTCAGCGCCCTTGAAACCATAGTC
CAAGCTTGGATTCCTTCCTGCTGTCAGATTAGATGGCAACCCGTTGTTGTAATAGTCGTTGACAAGCTCTGAGAATTGGGCAAACATCAACTTACTAATT
GATGCAAGGGCCAATCTTGTATTATCCATGGAGACACCAATAGGGGTTCCTTGGAAGTTGCCACCATGTAAGGCCTTATTTCTTGAAACATCGATCAATG
GATTGTCGTTCACTGAGTTAATCTCCCTCTCGATCATCTTAGTTGCAGCACGAATGACTTCAATCTGAGGTCCAAGCCATTATGGAGATGTTCGGAGAGC
ATAACGATCTTGCTTTCGTTTTTGAAGAGGATCCATTTCATGGAGCTTCTGAGCTACCTTCACATAAGAGCTTCCATCCAAAATGTGTTCCATAATAGCA
GCAGCCTCAATCTGACCAGGGTGATGCTTCAACTTGTGTGTCAAATAGTCAGTGAATTCGGGCTTTCCGTTCATCACTTCAGCAAATATCGCTGATAAAA
CTTCAGACATAAGAGCAAGGATATTGGACTCAAACAGGACTATTGATGCCATAGCAGAACCAACTGCTGTGCCATTCACAAGTGCAAGTCCTTCCTTAGG



Pathogenesis-related protein PR1

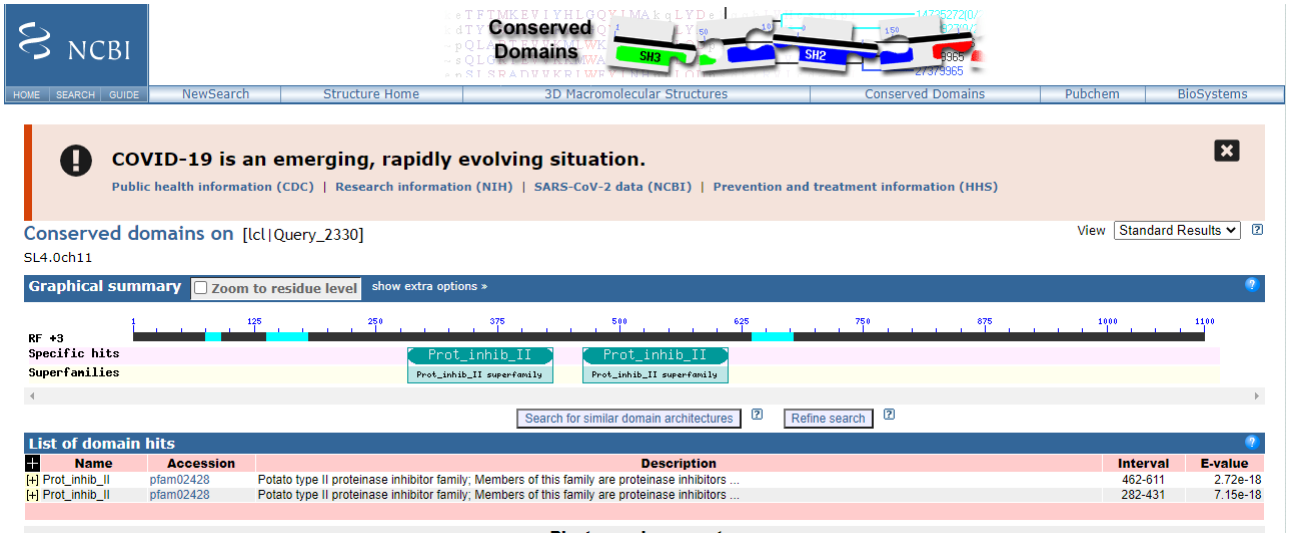
>SL4.0ch09 690601-691700
ATTTTGACAAATTTAAGGATCAAAATTGATCCAATCATACATTAGGGACTATTTTGAATCTACTATAAAAATGATAAGGAACCATTTTTTTGTTTTTTCA
TTTTCTCTATTAAGTTTCTTTGAATTTTCTTCACACATGCTAAACAAAATTCCACATATTTACTTATATATATACTATACTTATCTCACATTCATAATCA
CAATAATTTAGATTTCTTTTCTCTCTACTACTCCTATAGCAAAATGGGGTTGTTTAACATCTCATTTTTGCTCATTAGTCTCATGGTATTAACCATATTT
CACACTTGTGATTCCCAAAATTCACCCCAAGACTATTTTGCGGTTCACAACGATGCCTGCGCCCAAGTTGGAGTTGGGCCAATGTCTTAGGATGCTTCAC
AACGATGCCCGCGCCCAAGTTGGAATTGGGCCAATGTCTTAGGATGCTGGCTTGGCATCTCGAGCACAAAATTATGCCAACTCAAGAGCTGGTAATTGCA
ACTTGATTCATTCTGGTGCATGGGAGAACCTTGCCAAGACCGGTGGTAATTTCACGGGGAGGGCCGCCGTGCAATTGTGGGTATCGAAAAAGCTAAACTA
CAACTACGGTACCCACCAATGTGCTAGCGGGCAAATGTGCGGACATTATACTCAAGTAGTTGGCGCAACTCAGTCCGACTAGGTTGTGGTCGGGTTCGTT
GTAACAACGGGTGGTGGTTCATTTCTTGCAACTATGATCATGTAGGCAACTGGGCCGGAAAACGTCCTTATTAAGGTGTCGTTTATTTATGACATATTGC
TAGTATTAAATAAAATTTTTATATTACATGTCAAGGAGTTAAAATTTAAATCTGGCAAGTGGATCGGATCGATCTCCTATATATCCAAGATGTTAAGGGA
TCAAATATATAATTATTGTTTTGATTTCCCTTTGATATTGCTAGTATGAATAATTCCACGTATCATATGTTCATGGTATCGTGCTTAGGTTCTTTACTTT
TTCAAAATTATGAAATTTATATATTAAAAAATTAAGTGGAGTAATTAATTGGGAAAACTACATAGATAGATCCAATTATGAAAATTTATCTAATTTGGAC



Proteinase inhibitor II (PINII)

>SL4.0ch11 13068101-13069200

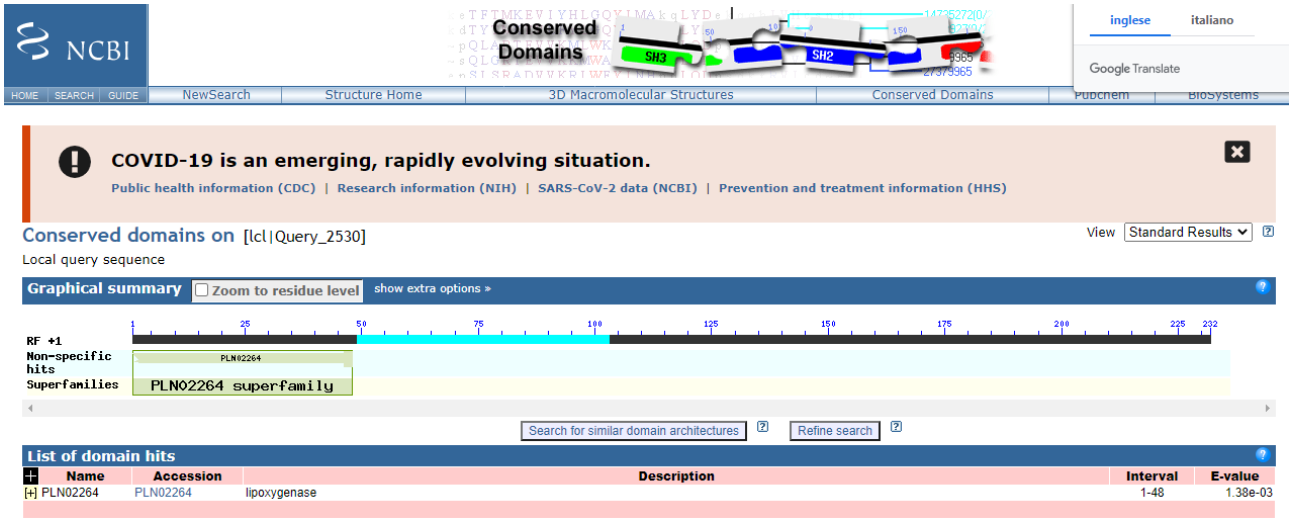
ATGAAATAAGTTATCGATCCCGTAGAGATGATGAGCTTGCTATAAATAGGTGGATAGGTTAACACATTCTTCACTCAAAAAAAAAAAGTTCAAGGTACTA
TTAATCACAAGAAAGTATGGCCTTCAACAAAGTTGCCCTCCTCATTTTGTTTGGTTAGTCTTTTTATTTCTTATCATCTTTGGTAATTCTACATTAAACA
TATTTGCTAATGACTTTATTTAATTATTCAGCTATTTTTGCTGGAACTGTTTTACTTTTAAGTGAGGTGGATGCAGCAAATGCTTGTCCCCGTAATTGTA
ATCCAAGTATTCAATATGGGAGATGCCCAAAATCTGGAAACAAAAAGTTCAAAGTTGGATGCACAAATTGTTGCTCAGGCACTGAAGGTTGCAACTATTA
TAGTGCTAACGGAACATTCATTTGTGAAGGACAGACAAAAAAGACTATAGACGAAACAAATAAAGCTTGTCCTCGTAATTGTAATCCAAGAATAGCGTAC
TCGATATGTCCAGGCAATAAAAGGAGTGAAGGTAGAATATGCACCAATTGTTGTGCAGGCAGTAAGGGTTGCAACTATTACACTGTCGATGGAACTTTTG
TTTGTGAAGGAGAATCTAAAGTCGATAGCTCTTAATAGTTTTTCTAATTTTTGTTCGTCTGTTTGTACTTTTTTATGTTTTCAATAATTACGCGTGAGCC
TATGGTTCATTTAAGTCGTGTAAGATGTGTTAGTGGATGTTTACAAATTTCAACTGTTTTGTGCTAGATTTTCAAGAGCCTAATTAATGGTGTGATGGTT
TATTTTATTACTTGAATTTAAGTTTACTAGTTTCTGAGAATATAGGTGGTCTTGACATGTTTATCCAAAAAAAAAATTATAACTCTGAAGTCAGTAAGAA
AATTGTTAAAATTTTGGAAAGAACATATCAATTTTTCTTTCAAATTAAAAGGATAAAATTGCTCATGACGAAATCTAGACACAATATTCACGTTGTTACT
CTATTAAAAATAAAGGTCAATTTACTATTATCTGGTAAACTATGATAAAAATCAATTAAACTAACACTTATTTCGTCCATTGTACTTGATGATGATTTTA
ggctcacgcgtaattattgaa



Lipoxygenase (LOX)

>SL4.0ch03 64659501-64660600

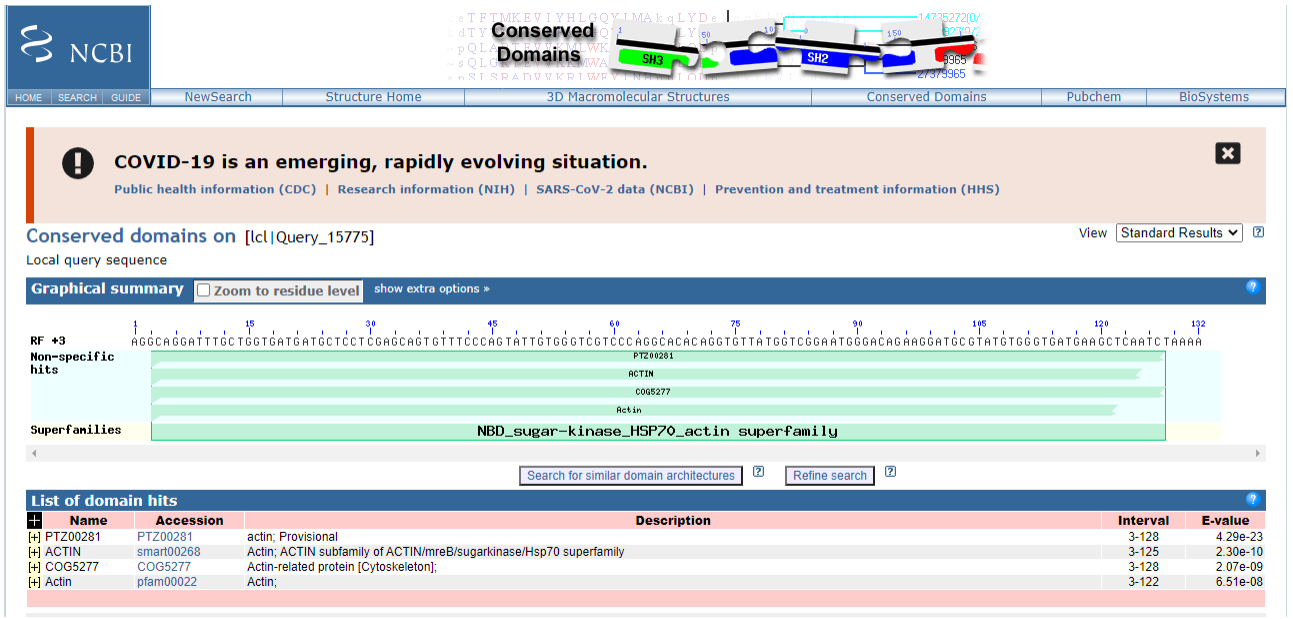
ACGTAGATCACTACTATCCATCCTCGGCCCAAGTTTGCAGTGACAGGGAGCTGCAAGCTTGGTATACTGAGACTATTAATGTGGGCCACGTTGACCTCCG
CAACGAGGACTGGTGGCCCACGTTAGCTACTCCAGAGGACCTCATTTCCATCCTCACCACCCTCATCTGGCTGGCTTCAGCGCAACATGCTGCCCTGAAT
TTCGGGCAGTACCCTTACAGTGGATACGTTCCAAACCGACCACCACTCATGCGTCGATTAATCCCTGACGAGAACGATCCCGAGTATGCGGTGTTCCTAG
CTGATCCACAAAAATATTTCTTCTCAGCTTTACCAAGTTTGTTACAAGCAACAAAGTTCATGGCCGTGGTTGACACATTATCGACACATTCCCCAGATGA
AGAATACATAGGGGAAAGACAGCAACCGTCTACTTGGACCGGAGATGCAGAGATTGTTGAAGCATTCTACAAATTTTCCGCGGAAATAGGGAGAATTGAG
AAGGAGATAGATGAAAGAAATGCCGATACGAATCTAAAAAATAGGTGTGGTGCTGGTGTATTACCATATGAACTATTGGCACCAAGTTCAGGCCCTGGAG
TAACATGTAGGGGTGTTCCAAATAGTGTATCGATATGAGTAATTATAAGTATATATATATTATATATAACCTATGTTTATAAAGCCCATAAATAGGGCGG
ACTGCTGTGTCTAGTTATGTCAAAATGTATGTTTGTATCTACGGCTAGATTTTTGTAAGAACATTAATTAAGTTAAATAATTAGCCACTAATACTAGCTT
AAGTCCATCTACCACATACTTGAGTTCCGTTACTACTTCATTTGCATTATATTATTATCATGTTCCAAAATTTGTTGCTTATCTCGACTTACAGACATAT
TATCTAAATGTTTTGCTAAATAACGACTCCGACACAGTCATATTATATTACCGCCTGCCTTCGTTATAAAATTATACCGATTACAAATCGTTATAATTAT
GACAAATCTTGGTTAAAAGATACTTTTAAATTGCGAATTCATAATTTTAATTAATTTTTTTCTTCAAATCATTAGTACATTTTATTCCCACTAGTGCAGT



Actin

>SL4.0ch03 45370501-45371600

GATCTGTTGTTTTTATGGTCAATCTGTCATGAACTTGATCTGCTCTTAATTTTCCTAGATCTACTGTGTTATTAGTACTTGATCTCTGCATACTCATTTT
GGTTACCAGCAAATTTAGCTAAACTTTGATGGATCTTTTTTTTTTGGCTGCTATACGGAAAAACGAAGCATGTTTTTATTATTACAAGTGTCCGCCTGTT
GACTGAGCTCCAAATTGTCTGGGATTTAGATATATCAGTTTACTTACTAACAAGTAAAACCTTATATGACTAGAGACATTTAGTTGAGTTCTGAATCGAT
CTTATGATGTTGTGTTATGTGTTGATACCTTCATGTATATGTTTAGGTTAGACTAAGTGTGCTGATTTAACTTGCTTTTACTTTCAGTTGATTAAAAATG
GCCGACGGTGAGGATATTCAGCCCCTTGTTTGTGACAATGGAACTGGAATGGTTAAGGTAGTCCTTGTTCATTGACTATTGTTTTTACAGGAAGCACTTG
TCATTTATAACCATTTTAATTTAAGCCAATTGCATATCCTTTTTATGGAATGATTTGTGTTTTGAAATGTAGGCAGGATTTGCTGGTGATGATGCTCCTC
GAGCAGTGTTTCCCAGTATTGTGGGTCGTCCCAGGCACACAGGTGTTATGGTCGGAATGGGACAGAAGGATGCGTATGTGGGTGATGAAGCTCAATCTAA
GAGAGGTATCTTGACCTTGAAATATCCCATTGAGCATGGTATAGTCAGCAATTGGGATGATATGGAGAAGATATGGCATCATACTTTTTACAATGAGCTT
CGAGTTGCTCCTGAGGAACACCCTGTTCTCCTGACTGAGGCACCCCTTAATCCCAAGGCCAACAGAGAGAAGATGACCCAGATTATGTTTGAGACATTTA
ATGTTCCTGCTATGTATGTTGCTATCCAGGCTGTGCTTTCTCTGTATGCTAGCGGTCGTACCACTGGTTCGTACTGGGCTTTTTGTGATCCAACTTTGTC
TGCCCAATGAAATAACTCACTCTGTTTTAATTTTGACTTAATATATTACTTTTGACAGGTATTGTGTTGGACTCTGGTGATGGTGTTAGTCACACTGTCC

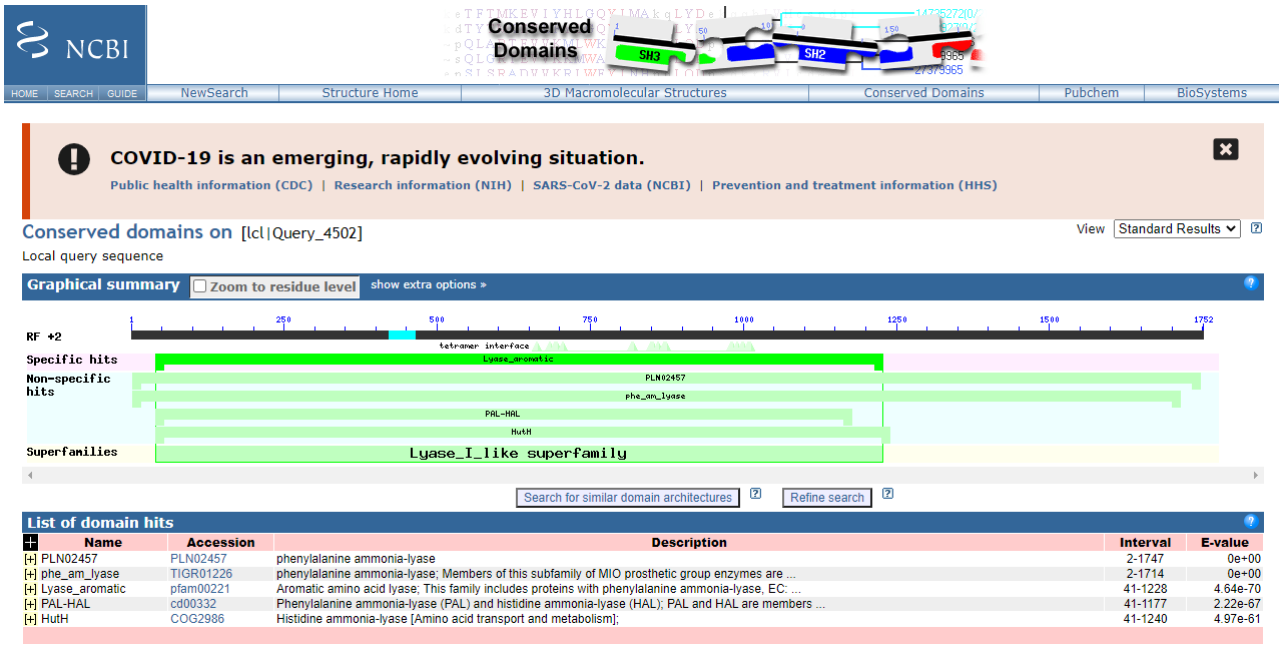


Primers listed in Table 1 were designed in order to amplify regions (highlighted) encoding the following genes: Phenylalanine ammonia-lyase (PAL), Pathogenesis-related protein (PR1), Lipoxygenase (LOX) and Proteinase inhibitor II (PINII). Available sequences of *M. acuminata* (DH-Pahang_pseudochromosomes_2.0 (https://banana-genomehub.southgreen.fr) matching the enzymes of interest were checked by blastx (https://blast.ncbi.nlm.nih.gov/) (down figure) and then used as template for pickup primers using Primer3 and BLAST tool (https://www.ncbi.nlm.nih.gov/tools/primer-blast/).

Phenylalanine ammonia-lyase (PAL)

chr01 chr01:2939428..2941177

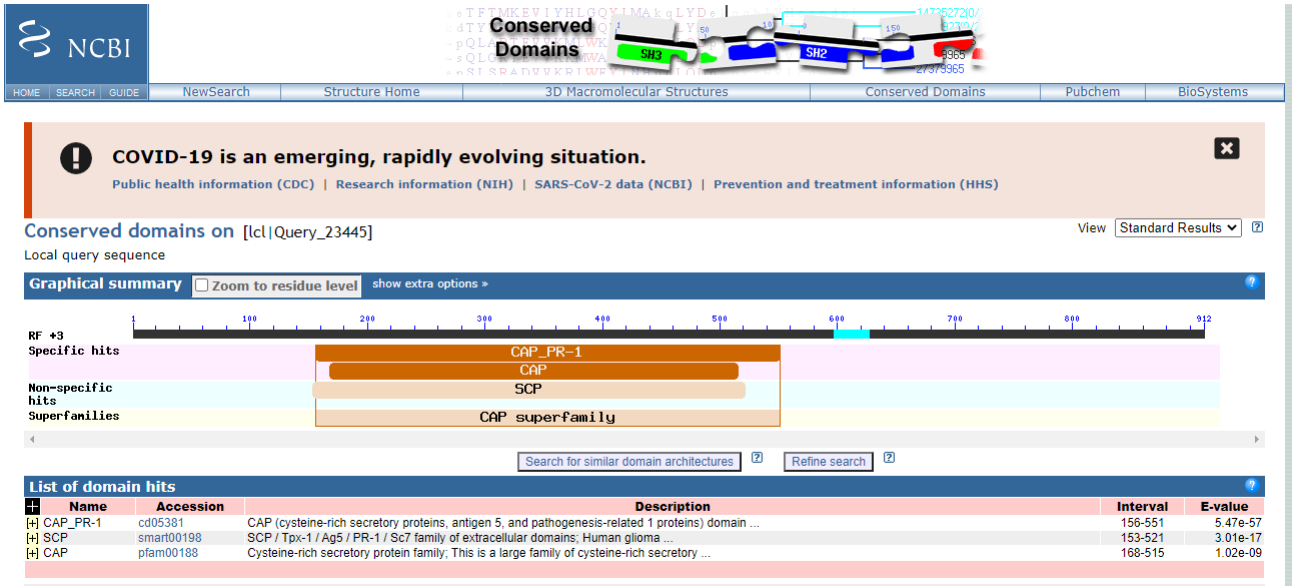
GTTCCTCAATGCCGGAATCTTCGGCTCCGGCCCGGAGTCGGGAAACACATTGCCTTCGTCCGCTGCGAAGGCGGCCATGCTCGTCCGGGTGAACACCCTC
CTCCAGGGCTACTCCGGCATCCGGTTTGAGATCCTGGAAGCCATCGCCAGCCTGCTCAACAACGGCATCACCCCCTGCCTGCCGCTGCGGGGCACCATCA
CCGCCTCCGGTGATCTCGTCCCGCTGTCTTACATCGCAGGAATCCTGACTGGCCGGCCGAACGCAAAGGCCGTCGGCCCCGACGGCAAGGTCATAGGCGC
GGCGGAGGCTTTCCGGCTCGCCGGCATCGCGGACGGTTTCTTTGAACTGCAGCCCAAGGAAGGACTGGCGCTGGTGAACGGCACCGCCGTGGGATCGGGC
TTGGCCTCCATGGTGCTCTTCGAGGCCAACGTCCTGGCCGTCCTATCGGAGGTGCTGTCGGCCGTCTTCTGCGAGGTGATGCAGGGGAAGCCGGAGTTCA
CCGACCACCTCACGCACAAGCTGAAGCACCACCCGGGCCAGATCGAGGCGGCCGCCATCATGGAGCACATACTGGAGGGAAGCTCCTACATGAAGATGGC
GCAGAAGCTGCACGAGCAGGACCCGCTCCAGAAGCCAAAGCAGGACCGCTACGCCCTGCGCACCTCCCCTCAGTGGCTCGGCCCGCAGATCGAGGTCATC
CGCGCTTCCACCAAGTCCATCGAGCGCGAGATCAACTCCGTCAACGACAACCCGCTCATCGACGTGTCCCGGAGCAAGGCCCTCCACGGCGGCAACTTCC
AGGGCACGCCCATCGGCGTCTCCATGGACAACACCCGCCTGGCCGTCGCCGCCATCGGGAAGCTCATGTTTGCGCAGTTCTCTGAGCTGGTCAATGACTT
CTACAACAACGGCCTGCCCTCGAACCTCTCTGGGGGACGGAACCCGAGCCTGGACTACGGGTTCAAGGGCGCCGAGATCGCCATGGCGGCCTACTGCTCT
GAACTCCAGTTCCTGGCCAACCCCGTTACCAACCACGTCCAGAGCGCCGAGCAGCACAACCAGGACGTGAACTCGCTGGGGCTCATCTCCGCGAGGAAGA
CGGCGGAGGCCGTCGACATACTCAAGCTCATGTCCACCACCTACTTGGTGGCGCTCTGCCAGGCCGTCGACCTCCGGCACCTGGAGGAGAACCTGAAGAG
CGCTGTGAAGAGCACGGTGAGCCAGGTGGCGAAGCGGGTGCTCACCATGGGCGCCAACGGGGAACTCCACCCCGCCCGGTTCTGCGAGAAGGAGCTGATC
AAGGTGGTGGACCGGGAGCACGTCTTCACCTACGTCGACGACCCCTGCAGCGCCACCTACCCGCTGATGCAGAAGTTGCGGCAGGTCCTCGTGGCGCACG
CGCTCGAGAACGGCGACAAGGAGAAGGACGCCGGCAGCTCCATCTTCCAGAAGATCGCAACCTTCGAAGAAGAGCTGAAGGCGCAGCTGCCGAAAGAAGT
GGAAGCGGCGAGGTCGGCCGTGGAGGGCGGGAAGGCGGCCATTCCGAACAGGATCGAGGAGTGCAGGTCTTACCCGCTTTACAGGTTGGTGAGGGAGGAG
CTCAAGACGGGGTTCCTGACGGGCGAAAAGGTGACGTCGCCGGGCGAGGAGTTCGACAAGGTGTTCGACGCCATCTGCCAGGGGAAGGTGATCGACCCTC
TCCTCGAGTGCTTGAAGGAATGGGACGGTGCTCCCATCCCCATCTGTTAG



Pathogenesis-related protein (PR1)

chr04 chr04:2013058..2013969

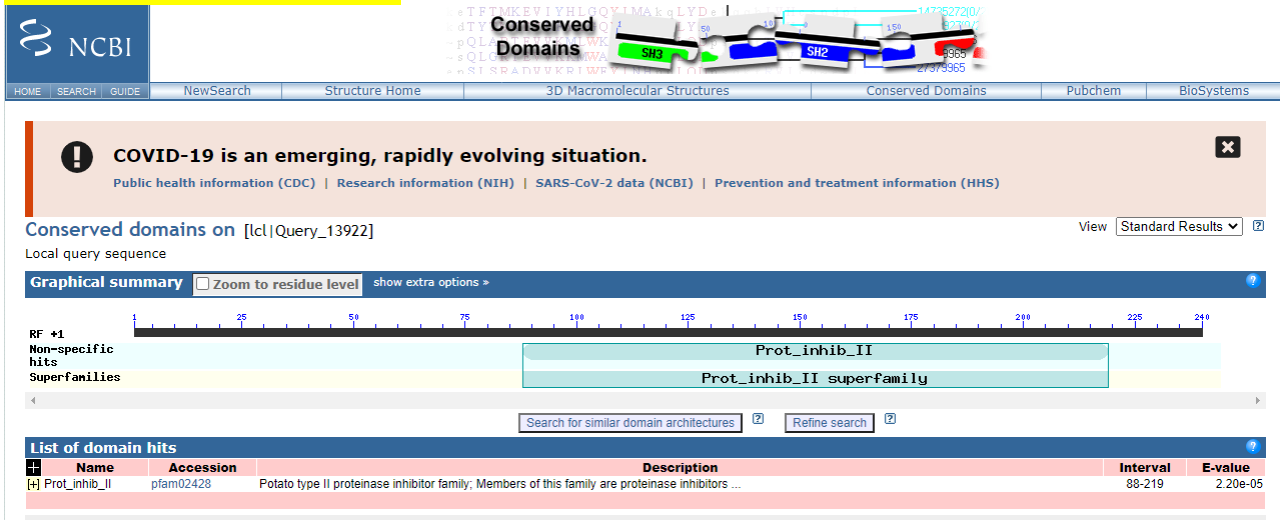
AACCAGTCGCTGTAGAAGAGAAAATGGCCTGTTTAGTTTCCGTCGTCGTATTACAGCTTCTAACGATCCACTACATCATCGTCACCGGCGCTCAGAATTC
GACCACCGACACGGCGAGCCCGGACGGCGTCAGCTCGGCGACGGTCATCTCCCAGTTCCTGGCGTCCCACAACGAGGCGAGGCAGCAGGTCGGGGTGCCG
CCACTGAGGTGGGACGCGAAGCTGGCGAGCTTCGCCAGGGCGTACGCCAACCAGCGGCGGGGCGACTGCCAGCTGGTGCACTCGCCGGGGTACGCCTACG
GGGAGAACATCTTCTGGGGGCAGGGGAGGCGGTGGGCTATCCCGGACGCCGTGGCCAAGTGGGTGGAGGAGAAGCAGTGGTACCGCTACGACACCAACAC
CTGCGCCGGCCCGGACTGCACCCACTACACGCAGATGGTGTGGCGCACGACGGAGCTGCTGGGCTGCGCCAAGATCGTCTGCAGCAGCGGCGACACCTTC
ATCGTCTGCGAGTACTACCCGCCGGGAAACTATGTCGGAGCCCGTCCGTACATTAAGCCGCCGAAGGCCTGATCGCATCGACCTCTTGCTGCTGTCTCAC
TACCGCTGTTACCGTCATCGTTGTCACCTGATACTGCTCTGAAGATTGTATATAATGTGCTTAGTCAACGAAATAATTGATGCGATTGTACATACCGTCA
TCGTCGTCTCCTACCGCCTCGCGCCCACAAGGTGAGGGTCTGTTCACTGCCGGGTGCGCTTACCGCGTACCAGTTCAGCGACAAACCGGCCCAAGTAGTT
CCTTTTGGCGTCAAATTCCGTTCTTATTCCCACCAATGTGACGGGAATCTTGTCGCATATATTTATCGCATATACAATGAATGTGCTTTGTGGAGGAAAG
AATCGATGCGAA



Proteinase inhibitor II (PINII)

chr04 chr04:4858206..4858401

ATGTCTTCCACCAAGCTTCCTCTTGCAATTCTTCTCTTGTTGTCAGGTACTGTGATGTTTGGATGGATCCAGTATAGCGCTGAAGCCAAGGTTTGTCCCC
TCTTCTGTGTGCAAGCAGAGTACATGACCTGCAACTCCACTGCTGGTGAGAGGCTGAACCCTGTGTGCAACTGCTGCTTTGCTCCAGAAGGGGGCTGCAC
CATTTATCTAGGCAATGGAGGTAAACTGCAGTGTGCTTAA

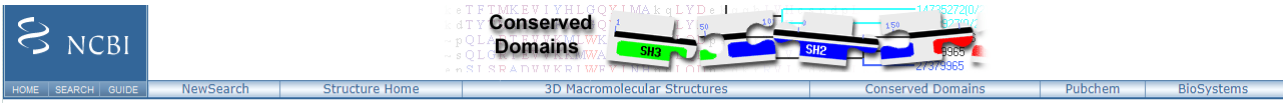


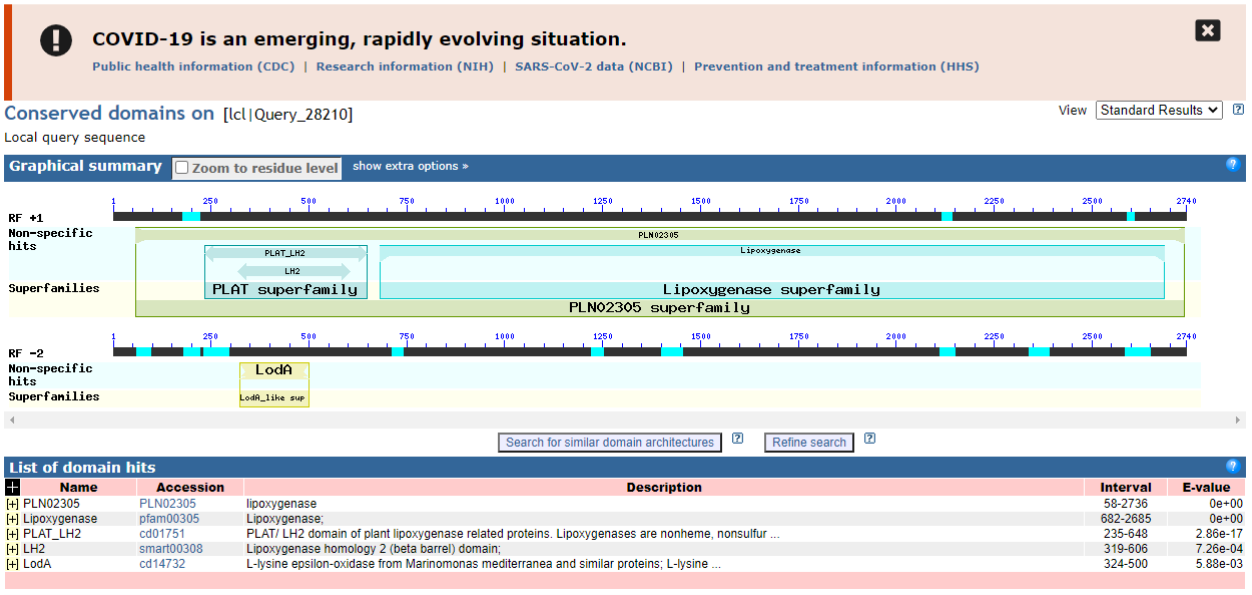
Lipoxygenase (LOX)

chr06 chr06:31521781..31528098

ATGCTGTCCGCAAAGTCAACCTCTTTCTTCCCCGCCATCGCCCCGCAGCTCGATGCCGGCAGGAGCAGCAGGACTCGCTTGGTCAACCTTGGCAGCTGCC
GGCGATCGATCGCCAGCCGGACGGTCCGCGCGGTGATCAGCAGCGACGACAAGAGCGTCGGCACGCTCCCGTCGCAGCCGGCGGCCGTCGGCGTTGCTCT
GAGGGCCGCGGCGCCGCCGGGGGACTCGATCGACGTCAGGGTGGTGCTCACGGTGAGGAACAGGATCAAGGAGAAGCTGGTGAGCAAGATTGGGGACCAG
TTGGAGTACTTCGTCAATGGGATCGGACAGGGCATCACTGTCCAGCTCGTCAGCGAGGAGATCGATCCCGATTCTGAATCAGGAAAAAGGAGTGCAGAGG
TTGCTGTAAGGGGTTTTCTGCCAAGATCATCAAACCATCCATCACTTGTTGAGTATGCAGCCAATTTCACTGTGCCGTCTGGTTTTGGTCGCCCGGGAGC
CATTTGCATCACCAACCTCCACAGAAAGGAGTTCTACCTGGTGGAGATTGTTGTTCATGGTTTGAATGACGGACCATTTTTCTTCCCTGCAAATACATGG
ATCCACACTCGCAATGATAATCCTCAGAGCCGGATAATATTCAGCAATCAGGCATATTTACCATCACAAACCCCAGATGGTTTAAAGAACATCAGACAGG
ACATCTTACTCGGTCTGCGTGGCAATGGCAAAGGCGAGAGAAAGAAATTTGAAATGATATATGACTATGCTCTGTATAATGACTTGGGCAATCCTGATAA
GGATCCAGATGTTGCTAGACCAGTCCTAGGTGGTTCAAAAAGGCCATATCCCAGACGCTGTCGCACGGGTAGACCACCAACAAAATCAGATCTAAGTGCT
GAGAGTAGAGTAGAGAAACCTCATTCTGTGTATGTTCCGCGTGATGAAACTTTTGAGGAAATCAAGCAAAATACATTTTCTGCTGGAGCTCTGAAAGCAT
TGTTTCACAATCTGATACCAGCTTTGATGGCTGCACTATCTAGTTCAGATAGCCAATTCGAGTGCTTTTCTGATATCGACAGGCTATACAAAGATGGTTT
GCTTATAAAGAGCGAGGAGCAAAAACTTACTCAGAAACTTTTACTTCCTACGGTTCTCGGCAACTTGTTGAGCATGGGTGAAAAACTGATGAAATATGAC
ATACCATCAATCATATCAAGAGACAGATTTTCTTGGTTGAGGGACAATGAATTTGCTCGGCAGACACTAGCTGGTGTTAATCCTGTAGATATTCAAAGAT
TAAGGGAATTTCCAATACGTAGTAAGCTAGATCCTGAAACCTATGGATCACCAGAGTCTGCAATAACTAAAGAATGCCTGGAGCATGAACTAAATGGAAT
GAGCCTTCAGGAGGCAATGGATAATGACAGACTATTTATAATAGATTACCATGACATCCTTTTGCCATATGTTAAGAAGATCAATTCCTTGAAAGAAAGG
AAAATGTATGCTTCAAGGACAGTTTTGTTCTACACACGTAGTGGCATACTCAGACCAATTGCAATTGAGCTTAGCCTGCCATCTACTCCATCAGCTTCAA
GGAAAAGGGTATACACTCATGGGCATGATGCGACAACAAACTGGATTTGGAAATTAGCCAAAGCTCATGCCTGCGCAAATGATGCTGGTGTCCATCAGCT
AGTGAACCACTGGTTGAGGACACATGCTGCCATGGAGCCCTACATCATTGCTACTCATAGACAGCTTAGTTCGATGCACCCAATTTTCATGCTGTTGCAT
CCTCACATGCGGTACACACTGGAAATAAATGCGTTGGCTCGCCAAAGTCTGATCAATGGTGGAGGAATCATCGAAAACTGTTTCAGTCCCGGGAAGTACT
CCATGGAGCTGAGTTCGGCTGCATACAAGAGTCTCTGGCGGTTTGACATGGAAGCTCTTCCAGCTGACCTTATTCGGAGAGGCATGGCTATTGAGGATCC
TTCGATGCCTTGTGGAGTAAAGTTGGTCATCGAGGACTATCCTTATGCTGCGGACGGTCTCCTTGTATGGTCGGCAATTGAAGACTGGGTCAAGGATTAT
GTCACCCACTACTATTCAGATGACAGTAGTGTGACTTCAGATGTAGAGCTCCAAGCATGGTGGGATGAGATAAAGAACAAAGGTCACCCTGACAAAAGAA
ATGAACCATGGTGGCCTAACCTGAACACCAAGGAAGACTTGATCCACATACTGACTATAATTGTGTGGACTGCATCCGGACAACATGCAGCAATAAACTT
TGGCCAATACCCTTTCGGAGGTTACATGCCAAATCGACCTACGCTGATGAAGAAGCTCATTCCTCAAGAGGACGAACCAGAGTACGAGAAGTTCCTTCTA

AATCCTCAGTACATGTTCCTATCGGCTCTGCCATCACAGCTGCAAGCCACTCAAATAATGGCGGTTCAGGATACGTTATCAACACACTCCCCAGATGAGG
AGTACCTCGGTCAGGTGATCGAGTCACATGCACATTGGACGAACAACAGGCATATCGCGAGCTGCTTTGAGAAGTTCTCTGCGAGGCTGGAAGAGATCGA
GGAGATCATAAATAGAAGGAACAAGAACTTTTATCTGAAGAACAGGAGCGGCGCAGGTGTTCCACCATATGAACTTCTTCTTCCCTTATCTGGCCCAGGA
GTGACAGGGCGAGGGATCCCAAACAGCATATCAATATGA



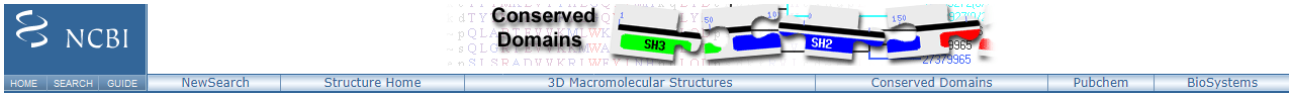


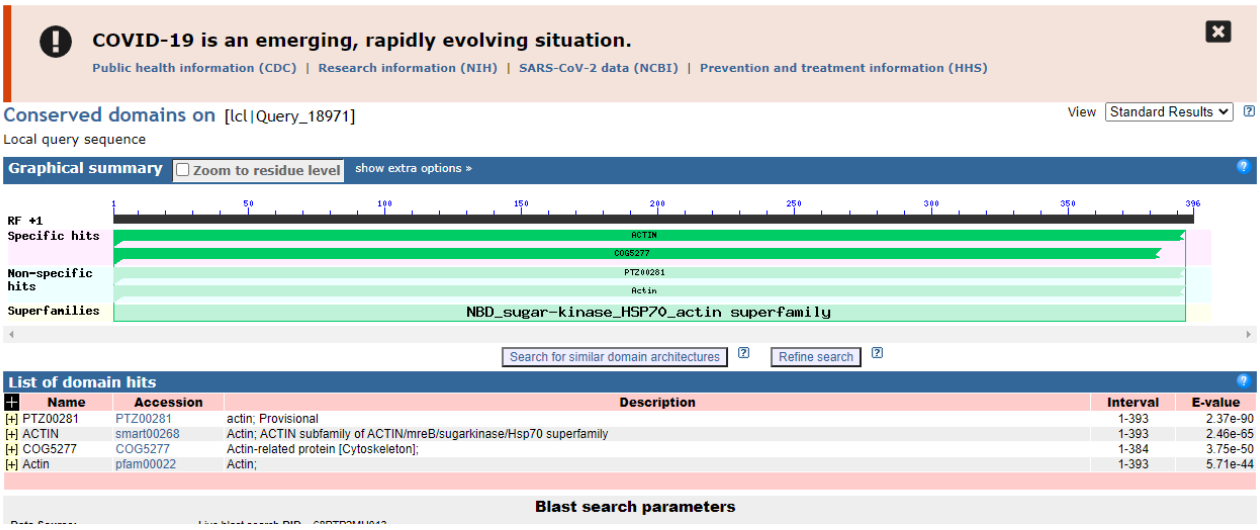
Name	Accession	Description	Interval	E-value
[+] PLN02305	PLN02305	lipoxygenase	58-2736	0e+00
[+] Lipoxygenase	pfam00305	Lipoxygenase;	682-2685	0e+00
[+] PLAT_LH2	cd01751	PLAT/ LH2 domain of plant lipoxygenase related proteins. Lipoxygenases are nonheme, nonsulfur ...	235-648	2.86e-17
[+] LH2	smart00308	Lipoxygenase homology 2 (beta barrel) domain;	319-606	7.26e-04
[+] LodA	cd14732	L-lysine epsilon-oxidase from Marinomonas mediterranea and similar proteins; L-lysine ...	324-500	5.88e-03

Actin

chr02 chr02:24048456..24048063

GCAGGATTTGCAGGCGATGATGCTCCGAGGGCTGTCTTCCCCAGCATCGTAGGCCGCCCACGCCACACCGGCGTGATGGTCGGCATGGGCCAGAAGGATG
CGTACGTCGGCGACGAGGCTCAGTCCAAGCGAGGCATTCTGACCTTGAAGTATCCCATCGAGCACGGCATCGTCAACAACTGGGACGACATGGAGAAGAT
ATGGCACCACACCTTCTACAACGAGCTCCGAGTGGCCCCCGAAGAGCACCCCATCCTCCTCACCGAGGCCCCTCTCAACCCCAAAGCCAACCGCGAGAAG
ATGACTCAGATCATGTTCGAGACCTTCAATGCCCCTGCCATGTATGTAGCCATTCAGGCCGTCCTCTCCCTGTATGCCAGCGGGCGCACAACTG





Name	Accession	Description	Interval	E-value
[+] PTZ00281	PTZ00281	actin; Provisional	1-393	2.37e-90
[+] ACTIN	smart00268	Actin; ACTIN subfamily of ACTIN/mreB/sugarkinase/Hsp70 superfamily	1-393	2.46e-65
[+] COG5277	COG5277	Actin-related protein [Cytoskeleton];	1-384	3.75e-50
[+] Actin	pfam00022	Actin;	1-393	5.71e-44

Blast search parameters