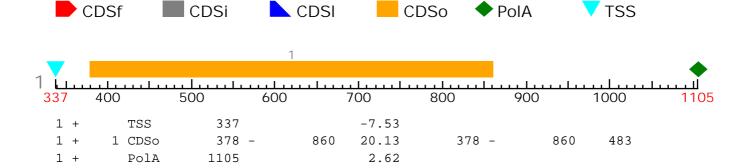
FGENESH 2.6 Prediction of potential genes in Blumeri_graminis genomic DNA

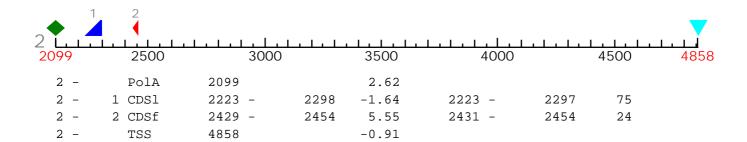
Seq name: fungal_18

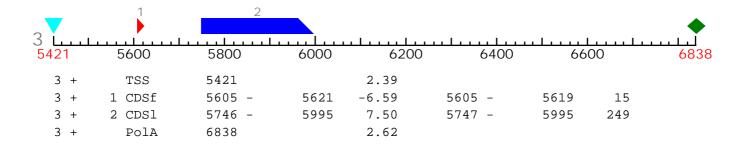
Length of sequence: 13836

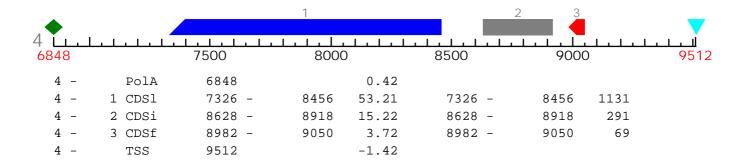
Number of predicted genes 5: in +chain 3, in -chain 2. Number of predicted exons 13: in +chain 8, in -chain 5.

Positions of predicted genes and exons: Variant 1 from 1, Score: 239.063477









Predicted protein(s):

>FGENESH:[mRNA] 1 1 exon (s) 378 - 860 483 bp, chain +
ATGCAGATTTTTGTAAAGACTCTCACCGGGAAGACTATCACCCTTGAGGTGGAGTCTTCC
GATACCATCGACAATGTCAAGACCAAAATCCAAGATAAAGAAGGAATACCTCCTGACCAA
CAACGCTTGATTTTCGCAGGAAAGCAGCTTGAAGATGGTCGAACACTCGCCGATTACAAC
ATCCAAAAAGAGTCTACCTTACATCTTGTTCTACGTCTGCGAGGTGGGGCAAAGAAGCGA
AAGAAGAAGGTTTACACAACCCCTAAAAAGATCAAGCACAAGCGAAAGAAGAAGATTA
GCTGTGCTCAAATATTACAAAGTGGATGGCGACGGAAAAATTGAGCGTCTTCGCAGAGAA
TGTCCTTCAACAGATGTAAGTCCTTTGTCCGTTGTATCACACATTCTAATCCTTATCAGT
GCGGTGCCGGTGTTTTCATGGCTGCTATGCAGGACCGTCAATATTGTGGACGATGCCATC
TAA

>FGENESH: 1 1 exon (s) 378 - 860 160 aa, chain + MQIFVKTLTGKTITLEVESSDTIDNVKTKIQDKEGIPPDQQRLIFAGKQLEDGRTLADYN IQKESTLHLVLRLRGGAKKRKKKVYTTPKKIKHKRKKTKLAVLKYYKVDGDGKIERLRRE CPSTDVSPLSVVSHILILISAVPVFSWLLCRTVNIVDDAI

>FGENESH:[mRNA] 2 2 exon (s) 2223 - 2454 102 bp, chain - ATGTCATTTGCGCATGTTGCATTCAGATTGTATATTGTCCCACCTGAGTCTTTGATTGTC GAGCATATTGGGCTCCTCTAACCCAGACCACGTATTTTAA

>FGENESH: 2 2 exon (s) 2223 - 2454 33 aa, chain - MSFAHVAFRLYIVPPESLIVEHIGLLSNPDHVF

>FGENESH: 3 2 exon (s) 5605 - 5995 88 aa, chain + MGQLVRKSRTGYLLGLPAKTNSSPSSGAGVIAQYALHIWDSQEESHPNRSRKQPQACLHL TTSRQCLSYHPHLSHQPSFDHASSRLNN

>FGENESH:[mRNA] 4 3 exon (s) 7326 - 9050 1491 bp, chain - ATGGAGTCCAACCATTACGCATCAGGAGAACCCCAAGGCCAACCAGACCACGCTAGTGAA CTGGAAGATCTACTGCACGCTGTTCAAGCCCTAATCATTCCTTTCGTTAGATCAGCGGAT GAAAGTGTAGCCTGCAAATCGATGACAGGTTCTGTGCCTGTGGCTCCCGGCGCAAGCGTT CGGACCTCTCTCGTCGAATCTCTTAGCCCAGATGTTTTGCGTGAGACGATGAACTTTAAT CTTCCCCTCACAGGCCAGGGAAAAGTAGGATTGCTAAGGGCTATTGAGCAAGTGCTCCAC TACAGTGTCAATACCGGGGACCAAGGATTCATGGATAAGCTATATGCTGGTACCAGCCCT GTTCACGTATTCAAAGTTTCGCCAGCACTATCTGTTATCGAAAAATTAACCGCAAAGGCT TTGGCTGTTCAATTTGGCTTTGATGGTCCTGACTCTGGTGGTATCTCGACGCAGAGCGGA

AGTGCTTCCAACGCTACTTCCATCGTAATTGCGAGAAATTGCTTATACCCGTCTACGAAG AAGGAAGGGAACGCAAGTTTAAAGCTGGTAATATTTACCTCAACCGATGGACATTACTCC CTAGAGAAAGCAGCTCAAGTTTGTGGCCTCGGTTCTGACAACGTATGCCTTGTTCCCTCT GACAGCGACGGTCGAATGATCCCCGAAGAGCTAGATAGACTAGTTCAAATTGTGAAGGCT GAAGGTCGAACTCCTTTTTATGTGAATGCTACGGCAGGTACGACTGTCTTGGGCTCATAT GATCCGGTGGAAGCTATTTCATTAGTTTGCAAAAAACATCATCTATGGCTTCACGTTGAT GCCTCTTGGGGTGGTCCCGTCATATTCTCCCGTCGACTCAAGTACAAAATGTCTGGCAGT CATTTAGCCGACTCTTTGGCTATCAACCCTCACAAAATGATGGGTGTTCCTGTCACCTGT TCATTCTTATTGACTCCAGATCTTCGAAGATTTCACTCAGCTAACAGTATCGCAGCCGAT TATCTCTTTCATACAGAGTCAACCAGGTCTGAAGTCTGGGATCTAGCTGAACTTACCATA CAGTGTGGCCGGCGTGCTGATAGTCTCAAACTCGCGCTGAGCTGGATCTATTATGGCACG GAAGGATTTGAGCAGCAAATTGAATACGCTTTCTCGGTTGCCGCCTATATGGCAGCTCAA ATTGAGTCTAATCCACATTTTCATCTCGTCTCAGAAAACCCACCACCGTGTTTACAGGTC ACGAGCTGTTTGGCTGAGAGGCTGGTTCCCCGTGGCTTCATGGTTGACTACGCTCCAGGT AAGTGGGGCTCTTTCCTCCGCGTGGTTGTAAATAGAGAGACCCGCATAGCTACGGTAGAT AGCCTTCTAAAAATGATCGAAGAAATAGGCAGTACCATAGTAATTAAATAG

>FGENESH: 4 3 exon (s) 7326 - 9050 496 aa, chain - MESNHYASGEPQGQPDHASELEDLLHAVQALIIPFVRSADESVACKSMTGSVPVAPGASV RTSLVESLSPDVLRETMNFNLPLTGQGKVGLLRAIEQVLHYSVNTGDQGFMDKLYAGTSP VHVFKVSPALSVIEKLTAKALAVQFGFDGPDSGGISTQSGSASNATSIVIARNCLYPSTK KEGNASLKLVIFTSTDGHYSLEKAAQVCGLGSDNVCLVPSDSDGRMIPEELDRLVQIVKA EGRTPFYVNATAGTTVLGSYDPVEAISLVCKKHHLWLHVDASWGGPVIFSRRLKYKMSGS HLADSLAINPHKMMGVPVTCSFLLTPDLRRFHSANSIAADYLFHTESTRSEVWDLAELTI QCGRRADSLKLALSWIYYGTEGFEQQIEYAFSVAAYMAAQIESNPHFHLVSENPPPCLQV CFYYTGSAGPSTSKNLNEQMTSCLAERLVPRGFMVDYAPGKWGSFLRVVVNRETRIATVD SLLKMIEEIGSTIVIK

>FGENESH:[mRNA] 5 5 exon (s) 10540 - 12985 2232 bp, chain + ATGAGTGTTATCGGAGTAGATTTTGGTACCGCAGGTACTGTTATAGCTGTCGCTCGAAAC TTTGGGCCTAAATCTCGATACCTTGGAGAATCAGCCAAAACGCAAGAAATATCCAACCTT AAAAATACTGTGGCCTCACTCAAGCGACTTGCTGGTCGTTGTTTGAACGATCCTGATATT CAGATTGAACAGAACTTTATATCAGCACCTCTTGTGGACATCAATGGACAAGTTGGAGCT GAAGTCACTTACCTTAACCGGAAGAAGAAGATTTACCTCCACGCAACTTATATCTATGTTT CTCAGCAAGATAAAAGCAACAGCTTCCGCAGAGTTAAAGTTACCTGTGTCTGACCTAGTG ATTGCTGGCTTAAAACTTCTTCGATTAATGAACGATACCACTGCTGCCGCTCTAGGATAC GGAATAACAAAACTGGATCTTCCAACAGCAGAGGAAAATCCAAGACGTGTAGCTTTTATC GATATTGGCCACTCAAACTACACTTGCTCAATTGTCGAATTTAGAAAAGGGGAATTGACC GTTAAATCCACCGCATACGATCGTCACTTTGGAGGACGTGATTTCGACAGGGCTCTTGTT GAACACCTAGCCACTGAATTCAAGGAGAGCTACAAGATAGACATCAAGTCTAATGCGAAG GCTATGGTTCGCGTCAATGCTGCTGCGGAAAAGTTGAAAAAAATACTCTCGGCGAATCAA CAGGCCCTCTAAACATCGAGTCTTTGATGGATGACATTGATGTCGCCACCATGGTCACC CGTGAAGGGCTCGAGAAACTAGTTGAGCCACTACTTAACCGTGTGCATGTACCTCTCGAA GGCTGCACCCGTGTACCTGCCCTAAAGGAACGAATTCAGAAATTCTTCAACAAAACTCTC TCGTTTACTCTTAATCAAGACGAAGCTATCGCACGTGGTTGTGCCTTTAGCTGCGCCATT CTTTCCCCAGTATTTCGTGTCCGCGATTTCTCAATCCATGACATTGTCAACTACCCTATT

GAATTTACTTGGGAAAAATCACCCGACATTCCCGACGAGGATACAAGTTTGACTGTTTTC AACCAAGGAAATTTGATGCCCTCGACTAAGATTTTAACATTTTATCGCAAGGAACCTTTC AATTTAGAAGCCAAGTATGCGACGCCTGAAAAACTTCCGGGTAAGACAAAACCATGGATT GGTAACTTTTCTGTAAAAGGTGTCAAAGCCGATGCCAAGGATGATTTCATGATTTGCAAG CTGAAAGCACGCCTTAATCTACACGGGATATTGAACGTGGATCAGGGTTACTATGTGGAG GAAGTTGAGGTGGAGGACCAATTCCTGAAGACCCGGAGAAGGAACCTGAAGTGAGTTTT GAACTTAACCCATTCCATGTTCGAAGTTCTTCGGAAGAACGTGCAGTGAAGCGTGTCCGA ACTGGACAACCCGTACTAACTTCAACAAAGGCGATGGATATCGAAGACAAGCCAAAGACT CGAAAAGTCAAGAGTCAAGTTCGTAAAGGAGATCTTCCTATATCCTCTGCAACCTCTGGT CTTGATGATCATCCAAATCAGCTTCTGCCGAACAAGAAGCTGCCATGATAATGGAAGAT AATAAGCTTGATGACCAATACTCTGAGTTTGCAAGCGAAGAAGAAAATTAAAACTTAAT GAAAGACTGACTACCACTGAGGATTGGTTATACGACGAGGGTGAAGATGCCACCAAAGCT ACCTACATCGCAAAAATGGATGAAATCCGCATGTTAGCTGGCCCTATTACTCAGCGCCAC TTTGATAAGGTAGAAGAAGAACGTGCGGCTGCACAAGCAATATCTGATGCTGAGGCTGCA AAGAAACGAGAATTAGCTGAAGCTGCTAAAGCTGCAGCACTTGCCCAGGAGGCTGCGATG AGTAAGGATGAAGTCATGGCGGAGGCTGATTCATCTAAAAATAGTGAAGGGTTTGAAGCA GATAGCAAATAA

>FGENESH: 5 5 exon (s) 10540 - 12985 743 aa, chain +
MSVIGVDFGTAGTVIAVARNRGVDVITNEVSNRSTPSLVGFGPKSRYLGESAKTQEISNL
KNTVASLKRLAGRCLNDPDIQIEQNFISAPLVDINGQVGAEVTYLNRKERFTSTQLISMF
LSKIKATASAELKLPVSDLVMSVPAWFTDAQRRSLMDAAEIAGLKLLRLMNDTTAAALGY
GITKLDLPTAEENPRRVAFIDIGHSNYTCSIVEFRKGELTVKSTAYDRHFGGRDFDRALV
EHLATEFKESYKIDIKSNAKAMVRVNAAAEKLKKILSANQQAPLNIESLMDDIDVATMVT
REGLEKLVEPLLNRVHVPLEQALADAKLKVEDIDVIELVGGCTRVPALKERIQKFFNKTL
SFTLNQDEAIARGCAFSCAILSPVFRVRDFSIHDIVNYPIEFTWEKSPDIPDEDTSLTVF
NQGNLMPSTKILTFYRKEPFNLEAKYATPEKLPGKTKPWIGNFSVKGVKADAKDDFMICK
LKARLNLHGILNVDQGYYVEEVEVEEPIPEDPEKEPEVSFELNPFHVRSSSEERAVKRVR
TGQPVLTSTKAMDIEDKPKTRKVKSQVRKGDLPISSATSGLDDSSKSASAEQEAAMIMED
KLVSDTEEKNELEAYIYEMRNKLDDQYSEFASEEEKLKLNERLTTTEDWLYDEGEDATKA
TYIAKMDEIRMLAGPITQRHFDKVEEERAAAQAISDAEAAKKRELAEAAKAAALAQEAAM
SKDEVMAEADSSKNSEGFEADSK