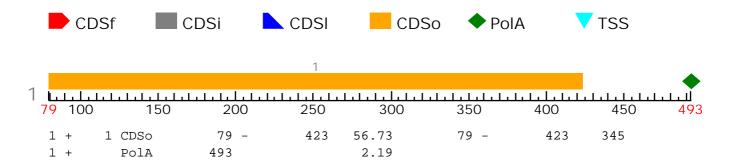
FGENESH 2.6 Prediction of potential genes in Triticum genomic DNA

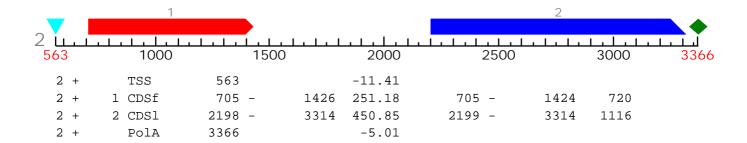
Seq name: region6

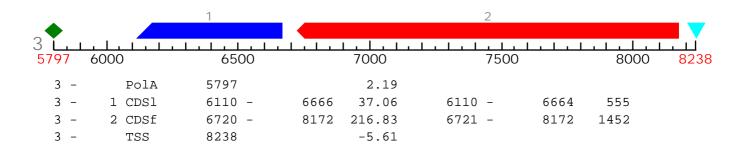
Length of sequence: 15001

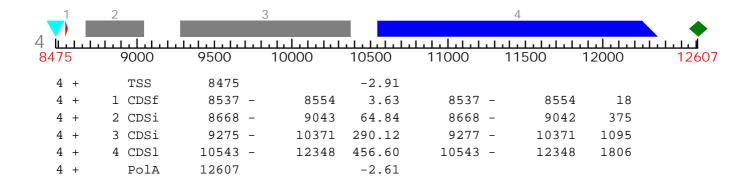
Number of predicted genes 5: in +chain 4, in -chain 1. Number of predicted exons 13: in +chain 11, in -chain 2.

Positions of predicted genes and exons: Variant 1 from 1, Score: 1813.750195









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5								
12733	13000	13200	13400	13600	13800	14000	14200	14466
5 +	TSS	12733		-7.61				
5 +	1 CDSf	13030 -	13262	22.47	13030 -	13260	231	
5 +	2 CDSi	13640 -	13749	14.97	13641 -	13748	108	
5 +	3 CDSi	14117 -	14132	3.67	14119 -	14130	12	
5 +	4 CDS1	14416 -	14428	1.35	14417 -	14428	12	
5 +	PolA	14466		-4.51				

## Predicted protein(s):

>FGENESH: [mRNA] 1 1 exon (s) 79 - 423 345 bp, chain +

>FGENESH: 1 1 exon (s) 79 - 423 114 aa, chain +

MAGERDAFSAHARYRMGRGHGWLDVVQRETAETGPVTRVAHRGPPPSPTWPRAPPAPAHT SPSHTTLRGRFTRRPFPGPGPRARAAPPHVAFTGGARATSAPTARAPPFIATI

>FGENESH: [mRNA] 2 2 exon (s) 705 - 3314 1839 bp, chain + GCCGTGGCGCCGCCAGCCAGCCTGAGGATGCAGACGCAGCTGGTGGAGCCCGCG CAGCCGCAGGCGCGGAGATGTTCCAGGCCATGGCGCCCGACCAGCAGCAGCAGCGGGCGAG GCCGCGCACCCGGACGCGGCGGCGAGGAGGCACGCAAGGTGGGCGTGCCGGTGTTCGTG TGGGGCATCGCCGAGAGCGAGGGCCCCGGCCAGTACAACTTCGCCGGCTACATCGAGCTC ATGGAGATGCCAAGAAGGCCGGGCTCAAGGTGCAGGCCGTCATGTCTTTCCACCAGTGC TCCTCTGTCTATCCAAGTACACATATACGTACATGCTGATCTTGATCATCCTTGCG TACATTCTTGTATTTTCCATGATTCCATGTACCATCGCATCTACGGGATGGACGCGTAC ATCATACCACTTCCGAAATGGGTAACGGAGGAGATGGACAAGGACCAGGACCTGGCGTAC ACGGACAGGTGCGCCGCCGGAACTACGAGTACCTCTCGCTGGGCGCCCGACACGATCCCG GCCCTCAAGGGCCGCACCCCATCCAGTGCTACGCCGACTTCATGCGCGCCCTTCCGCGAC CACCTCGCGCCCTACATGGGCAACACCATCTGCGAGATCCAGGTCGGCATGGGCCCCGCC GGCGAGCTCCGCTACCCCTGCTACCCGGAGAGCAACGGCACCTGGTCCTTCCCCGGCATC GGCGAGTTCCAGTGCTACGACCGCTACATGCGCGCCAGCCTCAAGGCCGCCGCCGAGGCG GTGGGCAGGCCGAGTGGGCAACGCCGGCCCCGAGGACTCGGGCAGCTACAACCAGTGG CCAGAGGACACCGGCTTCTTCCGCCGCGAGGGCGGCTGGAACACCGACTACGGCCAGTTC TTCATGAGTTGGTACTCGCAGATGCTGATCGAGCACGGCGAGCGGATACTCTCCGCCTGC TCCTCCGTCTTCACGGGTACCCCTGGGGTCAAGGTCTCCGTCAAGGTGGCCGGCATCCAC TGGCACTACGGCACCCGCTCCCACGCGCCCGAGCTCACCGCCGGCTACTACAACACCAGG AACCACGACGGGTACCTGCCCATCGCGCGCGCATGATCGGTCGCCACGGCGCGCGTGCTCAAC TTCACCTGCGTCGAGATGCGCAACCACGAGCAGCCGCAGGACGCGCAGTGCATGCCCGAG GCGCTCGTGAGCCAGGTGGCCAGCGCCGCCAAGGAGGCCGGAGTGGGCCTCGCCGGGGAG AACGCCTACCCAGGTACGACGAGACGCGCACGACCAGGTGCTGGCCACCGCGGGGGAG AAGGCTGAGGAGGACCGCATGGTCGCCTTCACCTACCTTCGCATGGGCCCCGACCTCTTCCAGCCCGACAACTGGCGCCCCCTCTCGCCGCGTTCGTCAAGCGCATGACGGAGACCGGCGTCAGGGAGCCGTGAGCCGAGGCGCGAGGCTCAGGGCGCCACCCAGGGCGTCATCCAGGAGGCCGCCGCCCCCCTCTGCAACTAA

>FGENESH: 2 2 exon (s) 705 - 3314 612 aa, chain + MALNLTHQTGAAAIAATPAPGARASVFAAASPAAAAAAGSAVAPAQATSLRMQTQLVEPA QPQAPEMFQAMAPDQQQQGEAAHPDAGGEEARKVGVPVFVMMPLDTVRKDGSALNRRKAV QASLAALKSAGTAGIMVDVWWGIAESEGPGQYNFAGYIELMEMAKKAGLKVQAVMSFHQC GGNVGDSVKYVVLCSLFSIQSSVYPSTHIRTCMLILIILAYILVFFHDSMYHRIYGMDAY IIPLPKWVTEEMDKDQDLAYTDRCGRRNYEYLSLGADTIPALKGRTPIQCYADFMRAFRD HLAPYMGNTICEIQVGMGPAGELRYPSYPESNGTWSFPGIGEFQCYDRYMRASLKAAAEA VGRPEWGNAGPEDSGSYNQWPEDTGFFRREGGWNTDYGQFFMSWYSQMLIEHGERILSAC SSVFTGTPGVKVSVKVAGIHWHYGTRSHAPELTAGYYNTRNHDGYLPIARMIGRHGAVLN FTCVEMRNHEQPQDAQCMPEALVSQVASAAKEAGVGLAGENALPRYDETAHDQVLATAAE KAEEDRMVAFTYLRMGPDLFQPDNWRRFAAFVKRMTETGVRDVSREQVEREAQGVAHATQ GVIQEAAVALCN

>FGENESH: [mRNA] 3 2 exon (s) 6110 - 8172 2010 bp, chain -ATGGCAATTTCTGTCAAAAAAATGAAAAAGGACAAAGTTGCCATCCCCTATCAATTAAA GTTGCCATCCCCGTGCTCCCCTTCAGCACGGCGGGCTGTTCGGTGAACTGAAGAGCAAG TGGGGGCTGCGCGACGCTCGACTACACCCTCTCCGCAACACCGCTTCATGCTCGAA TTCGAGCGTGAGGGCGATCGTCAGCACGTCCTGGAAAACGGCCCATGGACACACCGTAAG GATGCATTCCTCATTGTTCCCTTTGATGGACAGGGCAAGGCGTCGGACGTACCGGTGAAC GTCATGCCAATCTGGGCACGCATCTATGATGTGCCACCTCTCATGCTGTCAGAAGAGATC GGGTGGAAGCTAGGTGGCCTCTTGGGAAAAGTTCTCAGGGTAGATGCGGATAAGTTTGGG AATATTTCTCTGAATTTCTTTGTGTAAGAGTTGAACATAATGTAAACACTCCTCCTCTC CGTGAGATCAGTCCTAGAGAGTTAGGGGAGAAAGAGCATATGGACCTAGAGGTCAAGTAT GAGAGAGCCCCACGATTTTGTATGTACTGTGGGCACATAGGTCATGGGGAAAGGGACTGC AGGCTGCCGACGGTGATCAAGCAGAGAGGTTCACGGGGGCGATGAGAGCATTGCCCTAT AAATCAAGCAAAAACAAGTGCGGCTTCGTGGTACCAGACGCTTGTAGTGCCAGACGCTTC CTGCACTTTGGGTCTGAGTTGGACGGGGAGGCATGGACAGCCCCGGCCAAATTGGCCTGG GAGAAGCTAGGCAGAGACAAGAAGGTGATGCATGCTCGATCACAGGAGATGGTAAGATGC AGGGATATTCCAGATGATGTGCTGCTGGACCCGGCTGTACAAGCGGCAATCGCAGCGGTT AGCGCGCTTAGAGTGAGCGAAGACACTGGAAATGAAGGCACCAGGAAGACGAGCATCGGC GAGAACACAAGATGGCTCCGGCGAAACCCGCGCTGACCACGGCTTCTACTCCAACCATA GGTTTCGAGCCCGACTCTGTTAAGGCCTCTCCTGTCGCTGCTACTGTTAACTCAGTAGAG ACGGAGACAAGTCAGGGAAGTTGCATGCACCAAAAGGAACAGGTCTCAAAACCAAGGCA AAATATATTAGCCAGCTCAAGGAAAGAAAGGAACCAGGGGAGACAAATTCAGTTCTAGGA AAAAGAGGCACGGTGACATGGCCACATCTACTGGGGCTATGGCTAGTGCGTCTGATGTA ACAGGGGACATGTATAAGAAACAGAGAGCTGCTGTAGAGGAAGAGGATGAGAGAGCTGTA GGAGAGATAGGTGAGCGCCCGTCAGGAGGAATGACGATCCTATGTTGGAACTGCCGGGGA  $\tt CTGGGCCACCCGGGACAGTTCGTGAGCTTGTGTGCCTAGTGCGCACGTACCGCCCCTCT$ GTCGTGTTCATCTCTGAGACGCGGCAGTGTGAGGAGAGCGTCAAAAGAATAAGATGGAGG CTGGGCCTCAAAAACTGCATCACCCACGATGGCATGGGAAAAGGTGCTGGTATAGCCCTG TTTTGGGATGAAAGTGTTGAAATAAAATTACTCTCCTATGGTTTGAGGTATATTGATGTG CATATGCGTATGGATCCCCATGGCCCGATGTGGCGGGGTACCTTTGTGTACGGCGAGCCT AGAGCACATGAGAGGCATAACATGTGGAACCTGCTGAAAAGAATAAAACCAAAATCGATT GAGCCGTGGATGATAGGAGACTTCAATGAAACATTATGGCAAAGTGAACATTTCTCT GCAGCAAAAAGATCTGAAAGGTATATGGGCAATTTCAGAGATGTACTGGCATACTGTAAT CTTCATGATCTGGGTTACCATGGTTGGTAG

>FGENESH: 3 2 exon (s) 6110 - 8172 669 aa, chain - MAIFCQKNEKGQSCHPLSIKVAIPVLPFSTAGLFGELKSKWGLRGRLDYTPLRNNRFMLE FEREGDRQHVLENGPWTHRKDAFLIVPFDGQGKASDVPVNVMPIWARIYDVPPLMLSEEI GWKLGGLLGKVLRVDADKFGNIFSEFLCVRVEHNVNTPLLREISPRELGEKEHMDLEVKY ERAPRFCMYCGHIGHGERDCRLPTDDQAERFTGAMRALPYKSSKNKCGFVVPDACSARRF LHFGSELDGEAWTAPAKLAWEKLGRDKKVMHARSQEMVRCRDIPDDVLLDPAVQAAIAAV SALRVSEDTGNEGTRKTSIGENTKMAPAKPALTTASTPTIAMADADTSPSTPPGTGAGGD IDKTPLAHTIEDAATPPYPPGFEPDSVKASPVAATVNSVETETKSGKLHAPKGTGLKTKA KYISQLKERKEPGETNSVLGKRGTGDMATSTGAMASASDVTGDMYKKQRAAVEEEDERAV GEIGERPSGGMTILCWNCRGLGHPGTVRELVCLVRTYRPSVVFISETRQCEESVKRIRWR LGLKNCITHDGMGKGAGIALFWDESVEIKLLSYGLRYIDVHMRMDPHGPMWRGTFVYGEP RAHERHNMWNLLKRIKPKSIEPWMMIGDFNETLWQSEHFSAAKRSERYMGNFRDVLAYCN LHDLGYHGW

>FGENESH: [mRNA] 4 4 exon (s) 8537 - 12348 3297 bp, chain + ATGGAGATCCCTGACCAGACCAATCCGTGCGCGATCTGTCTCAGCGGCATGGGCGCCGGC GGTGGTCAGGCCACCTTCACGGCGGAGTGCTCCCACACGTTTCACTCCAGCTGCATCTCC GCCAGCGTCTGCCCGCTCTGCAGCGTGCCGCGGTACGACCTGCCGTTCCGGCGACCCACA CCACCTCCACCTCCGCCGCCGCCGGTGCGACCTCAGCCAGAGACTCGTCCCATTCCC CTCCGCCGTGCATCATTCTCCCGCGGCAGTCACCTCCCGTGCATTTCGTGCACGGTCAG CCACCGCCACCGCCACCGACCGACATACTCGTGGCCACGCATTCCCACGCAGGCACGA CAGCCGCCGCCACGGCCCGTGAATCTCGTGCACGCTGGCAACCGGTCACCAGCCGCTGCA TCAAACGAAGCAGTTGTCATCAAGACGCGAAGCGAGTACCCGGCCATCGCCATGGATTTG TCCAGCGACAACTTCGCCGTGCTCGTGCACGTCCAGGCTCCCGGGATGACCGACATCACG GCAGCCGGTGGCGACGCGCGCGCGCGCGCGGTGGACCTCGTGACGGTTCTCGATGTCAGT CACAGTATGAGCGGGCAAAAGTTGACGCTGTTGAAGCAGGCCATGCGGTTCGTCATCGCC AATCTCGGCCCGACGACGCCTCTCCGTCGTGTCCTTCAACACGAAGGCGCGCGGGTG ACCAGGCTCACGCGCATGTCGGAGGCCCGGGAAGGCCCTGTCCGTGAGCGCTGTGGAGTCC CTCACGGCGGCGCTGCACCGACATCGCCGAGGGGCTCCGTATGGCAGCCATGGTACTC GACCAGCGCCGGCACAGGAACGCCGTCTCGAGCGTCGTGCTCCTCTCTGATGGCCAGGAC AACTACATCATGATGAGGCACCAGGAGTCGTCCGGTGTCCAGGCCAACGACTACGAGGAC  $\tt CTCGTCCGGCCACCTTCGCGCGCACGGGCGCTGACGGCGAATGGTCAGCATCGATCCAC$ ACTTTCGGCTTCGGCAATGACCATGACGCGACCGCGATGCACGTCATCGCCGAGGCTACA GGCGGCACGTTCTCGTTGGTAGAGAACGAGGCGATGATCCAGGACGCGTTCGCACAGTGC CCCGGGGTCCGTGTCATGTCGGTCAAGTCCGGCAGTTACGAGAGCCGCATCGACGAGGAC GGCCGCGCCCCCCGGTCTGGGTCGGAGAACTATACGCTGATGAGGAGAGGCGTTTCTTG CTGATCCTGACCGTGCCAAGAGCCGAAGCGACAGACGGTGACACCACCGCTCTGTTGAAT GTGTCATTCAGCTGCAGAGACGCGGCGACCGGCATGGACGTGAACGTGTCGGCCAAGGAT CAAGAGATGCGCGGGCGCGTGTCGAACCGACAGAGCTACGCGTTGTCGGGTCGGGCGTAC ATGCTCGCCGGCATCAGCGCGCACCAGCAGCACGCGCTACCTCGAGGCAGATGAATCTG GTGGAGGAGATGTCGGTGGAATTTATGGCCGCACTGGTGGCGCCGCCAGTGAAGTTG GCATCGAACGAGGCGACATTGTCGTACGCGACGCCGGCTATGCGCGCCCATGCTGCTACGC TCGCGTAGGGCACGGGAGCATCAGCCGAGCAAGGGCAACTACAAGCTGAAGAAGAA TACACAGGAAGCTCTAAACACGGTCAGCCAACGCCGCCACTGACATCGTCGTGTCCCCGC

TTGCCCACGCAGCTACGTCCGCCACCGCCACCCATGCGTATCGGGCATGCTCGGCCG CCTACGGTTGTCTTCGACGACGACGAGCAGGTGGTCCGGCCTCTGGGCCGCCAGCTGAC AACCGGTCACCAGCCGCCGCGTCGAACGAAGCAGTTGTCGTCAAGACGCGGAGCGAGTAC CCGGCCATCGCTAGGGATTCGTCCAGTGAAAACTTCGCCATGCTCGTGCACGTCCAGGCT GTGACGGTTCTCGACGTCGGTGGCAGCATGAGCGGGTACAAGCTGGCGCTGCTGAAGCAG GCCATGCGGTTCATCATCGCCAATCTTGGCCCCGGCGACCGCCTCTCCGTCGTGTCCTTC TCCTCCGTGGCGCCGCCGGACCAGGCTCACGCTCATGTCGGAGACCGGGAAGGCCCTG TCCGTGAGCGCCGTGGAGTCCCTCACGGCGGGCGGCGCCCCGACATCGCCGAGGGGCTC CATATGGCAGCCATGGTACTCGACCAGCGTCGGCACAGAAACGCCGTCTCTAGCGTCGTG CTCCTCTCCGACGCCCAGGGTCATCCGGCGTCCGGGCCAACAACTACGAGGAGCTCGTC CCGCCCTCCTTCGCACGCACGGGAGCTGACGGCGAATGGTCAGCGCCGATCCACACGTTC GGCTTCGGCAACGACCACGACGCCGCGATGCACGCCATCGCCGACGCGACGGGCGGC ACGTTCTCGTTCATCGAGAACGAGGCGGTGATCCAGGACGCGTTTGCCCAGTGCATCGGC GTCCGTCTCATGTCGGTGAAGTCTAGCAGTTATGAGAGCCGCATCGACGAGGACGGCCGC GCCGCCACGGTCTGTATCGGGGAACTCTACGCCGAGGAGGAGGGGGTTTCTTGCTGTCT CTGGCCGTGCCAAGAGCTGAAGCAACAGACGGCGACACCGCTACTCTGGTGAAAGTGGTG TTCAGCTACAGAAACGCGACGACCGGCGGCGGACGTGAGCGTGACAACGGAGGACACAGTG CGCATCCGGGTGGAGGCGGCAGAGGACTTCACGGCGGCGAGGGCAGCGGCGGAACGGGGCGACCACCGGGAGGCGTGAAGATACTCAACAACCGGCAGCGTGCAGTGGCGCTGTCACAG TTGTCGCGCGACGACCCCGTGATCATGGCGCTGGAGGCCGAGCTGTGGGGGGATGTGC GGGCGCGTGGCGAACCGGCAGAGATACGCGCGGCCGGGTCCGGCGTACATGCTTTAG >FGENESH: 4 4 exon (s) 8537 - 12348 1098 aa, chain + MEIPDOTNPCAICLSGMGAGGGOATFTAECSHTFHSSCISASVCPLCSVPRYDLPFRRPT PPPPPPPPPVRPQPETRPIPLRPCIILPRQSPPVHFVHGQPPPPPPRPTYSWPRIPTQAR OPPPRPVNLVHAGNRSPAAASNEAVVIKTRSEYPAIAMDLSSDNFAVLVHVQAPGMTDIT AAGGDAPRAPVDLVTVLDVSHSMSGOKLTLLKOAMRFVIANLGPDDRLSVVSFNTKARRV TRLTRMSEAGKALSVSAVESLTAGGCTDIAEGLRMAAMVLDQRRHRNAVSSVVLLSDGQD NYIMMRHQESSGVQANDYEDLVPPTFARTGADGEWSASIHTFGFGNDHDATAMHVIAEAT GGTFSFVENEAMIODAFAOCIGGLLSVVVOEARIAVACVHPGVRVMSVKSGSYESRIDED GRAATVWVGELYADEERRFLLILTVPRAEATDGDTTALLNVSFSCRDAATGMDVNVSAKD  $\verb|TLVARPEHAVDAKRSVEAELQEMRGRVSNRQSYALSGRAYMLAGISAHQQQRATSRQMNL|$ VEEMSVEFMAALVAAPPVKLASNEATLSYATPAMRAMLLRSRRAREASAEOGOOLOAEEE YTGSSKHGQPTPPLTSSCPRLPTQLRPPPPPPMRIGHARPPTVVFDDDEQGGPASGPPAD NRSPAAASNEAVVVKTRSEYPAIARDSSSENFAMLVHVQAPGMTDIMAVGGDASRAPVDL VTVLDVGGSMSGYKLALLKOAMRFIIANLGPGDRLSVVSFSSVARRRTRLTLMSETGKAL SVSAVESLTAGGGTDIAEGLHMAAMVLDQRRHRNAVSSVVLLSDGPGSSGVRANNYEELV PPSFARTGADGEWSAPIHTFGFGNDHDTAAMHAIADATGGTFSFIENEAVIODAFAOCIG RLLSVVVQGARIAVACVHAGVRLMSVKSSSYESRIDEDGRAATVCIGELYAEEERRFLLS LAVPRAEATDGDTATLVKVVFSYRNATTGADVSVTTEDTVVARPEHAPNASERSVEVERE

>FGENESH:[mRNA] 5 4 exon (s) 13030 - 14428 372 bp, chain + ATGCCGGTGAATGGGCATGTTCAAGCGAGGACACCGGGCTCAGCTGCTTGTG CCCGAGACGCTGGTCGAGAACATGCTATTCCTCGCTGTTGGCATGCGCGTGGAACTCAAT AAGATGGTGAAGGAGGGTAGGGAGCTAAGAGGGATACTGGTACCTGCTCCCAGCGTGGAGC

RIRVEAAEDFTAARAAAERGDHREAVKILNNRORAVALSQLSRDDDPVIMALEAELWGMC

GRVANRORYARPGPAYML

TGCGCAATGCATGCGCTGTTGGAGTTAACCACGTCGGAGAGTCCATGCCCGGTCTATACC
GCCGTTGAGGTCGGACCAGCGCCAACAGCGATGGTGGCCGGGCTCGTCAAAGTGCAGGTG
GCGATGGCGTCAGTGGGGCGCGCATCCCCCGGGACAGCGAACGTGGGTCCTTCGTAAGG
AAAAAAAAAGTAG

>FGENESH: 5 4 exon (s) 13030 - 14428 123 aa, chain + MPVNGNMAMFKRGHRAQLLVPETLVENMLFLAVGMRVELNKMVKEGRELRGYWYLLPAWS CAMHALLELTTSESPCPVYTAVEVGPAPTAMVAGLVKVQVAMASVGRRIPRDSERGSFVR KKK