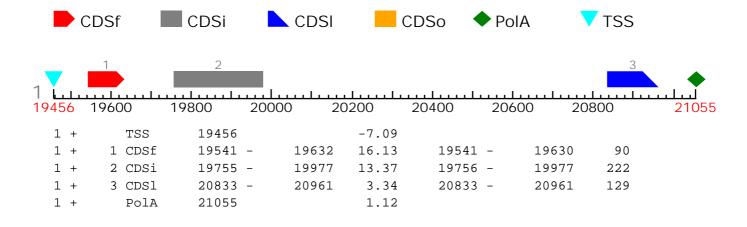
FGENESH 2.6 Prediction of potential genes in Homo_sapiens genomic DNA Seq name: gi|13907843|ref|NG_000007.1| Homo sapiens genomic beta

globin region (HBB@) on Length of sequence: 73308

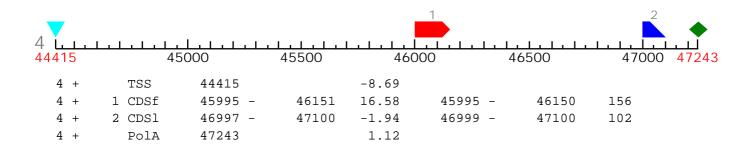
Number of predicted genes 10: in +chain 10, in -chain 0. Number of predicted exons 21: in +chain 21, in -chain 0.

Positions of predicted genes and exons: Variant 1 from 1, Score: 180.171887



	1	2						3
								•
بلنيا ك			<u> </u>					
34446	34600	34800	35000	35200	35400	35600	35800	36043
2 +	TSS	34446		-7.09				
2 +	1 CDSf	34531	- 34622	13.42	34531	- 34	1620 90	
2 +	2 CDSi	34745	- 34967	21.52	34746	- 34	1967 222	
2 +	3 CDSl	35854	- 35982	2.92	35854	- 35	5982 129	
2 +	PolA	36043		1.12				

	1	2					3	
2								•
ىتىلا 3	<u> </u>	<u> </u>	 	<u> </u>				لبيل
39382	39600	39800	40000	40200	40400	40600	40800	40959
3 +	TSS	39382		-7.09				
3 +	1 CDSf	39467 -	39558	13.42	39467 -	39556	90	
3 +	2 CDSi	39681 -	39903	21.52	39682 -	39903	222	
3 +	3 CDSl	40770 -	40898	3.66	40770 -	40898	129	
3 +	PolA	40959		1.12				



1	2					3		
		_						
5			1 - 1 - 1		1,1,1,1			للبل
54707	55000	55	500	56	5000	56500)	56931
5 +	TSS	54707		-4.39				
5 +	1 CDSf	54790 -	54881	13.44	54790 -	54879	90	
5 +	2 CDSi	55010 -	55232	17.01	55011 -	55232	222	
5 +	3 CDSl	56425 -	56535	2.53	56425 -	56535	111	
5 +	PolA	56931		1.12				

	1		2					3
					_			•
ىتىا 0						<u> </u>		
62104		62400	62600	62800	63000	63200	63400	63718
6 +		TSS	62104		-6.59			
6 +	1	CDSf	62187 -	62278	12.99	62187 -	62276	90
6 +	2	CDSi	62409 -	62631	20.06	62410 -	62631	222
6 +	3	CDS1	63482 -	63610	9.54	63482 -	63610	129
6 +		PolA	63718		1.12			

				1				
								•
ليليليا /		<u> </u>				<u> </u>	<u>. </u>	
68088	68150	68200	68250	68300	68350	68400	68450	68509
7 +	TSS	68088		-9.39				
7 +	1 CDSo	68183 -	68428	19.52	68183	- 68428	246	
7 +	PolA	68509		1.12				

						I				
										•
تتنيا 8	1	<u> </u>							<u> </u>	ليبلين
69336 69	400	69500	69600	69	9700	69800	69900	700	000	70131
0		60226			10.00					
8 +	TSS	69336			-10.29					
8 +	1 CDSo	69467	-	70072	16.45	69467	-	70072	606	
8 +	PolA	70131			-1.07					

				T			
							•
عليا 9		<u> </u>					<u> </u>
70224	70300	70400	70500	70600	70700	70800	70905
9 +	TSS	70224		-12.49			
9 +	1 CDSo	70355 -	70819	17.10	70355 -	70819 4	65
9 +	PolA	70905		1.12			



10 +	TSS	72085		-6.39			
10 +	1 CDSo	72135 -	72395	7.31	72135 -	72395	261
10 +	PolA	72952		1.12			

Predicted protein(s):

>FGENESH: 1 3 exon (s) 19541 - 20961 147 aa, chain + MVHFTAEEKAAVTSLWSKMNVEEAGGEALGRLLVVYPWTQRFFDSFGNLSSPSAILGNPK VKAHGKKVLTSFGDAIKNMDNLKPAFAKLSELHCDKLHVDPENFKLLGNVMVIILATHFG KEFTPEVQAAWQKLVSAVAIALAHKYH

>FGENESH:[mRNA] 2 3 exon (s) 34531 - 35982 444 bp, chain + ATGGGTCATTTCACAGAGGAGAGACCAGGCTACTATCACAAGCCTGTGGGGCAAGGTGAAT GTGGAAGATGCTGGAGGAGAAACCCTGGGAAGGCTCCTGGTTGTCTACCCATGGACCCAG AGGTTCTTTGACAGCTTTGGCAACCTGTCCTCTGCCATCATGGGCAACCCCAAA GTCAAGGCACATGGCAAGAAGGTGCTGACTTCCTTGGGAGATGCCATAAAGCACCTGGAT GATCTCAAGGGCACCTTTGCCCAGCTGAGTGAACTGCACTGTGACAAGCTGCATGTGGAT CCTGAGAACTTCAAGCTCCTGGGAAATGTGCTGGTGACCGTTTTGGCAATCCATTTCGGC AAAGAATTCACCCCTGAGGTGCAGGCTTCCTGGCAGAAGATGGTGACTGGAGTGGCCAGT GCCCTGTCCTCCAGATACCACTGA

>FGENESH: 2 3 exon (s) 34531 - 35982 147 aa, chain + MGHFTEEDKATITSLWGKVNVEDAGGETLGRLLVVYPWTQRFFDSFGNLSSASAIMGNPK VKAHGKKVLTSLGDAIKHLDDLKGTFAQLSELHCDKLHVDPENFKLLGNVLVTVLAIHFG KEFTPEVQASWQKMVTGVASALSSRYH

>FGENESH:[mRNA] 3 3 exon (s) 39467 - 40898 444 bp, chain + ATGGGTCATTTCACAGAGGAGGACAAGGCTACTATCACAAGCCTGTGGGGCAAGGTGAAT GTGGAAGATGCTGGAGGAGAAACCCTGGGAAGGCTCCTGGTTGTCTACCCATGGACCCAG AGGTTCTTTGACAGCTTTGGCAACCTGTCCTCTGCCTCTGCCATCATGGGCAACCCCAAA GTCAAGGCACATGGCAAGAAGGTGCTGACTTCCTTGGGAGATGCCATAAAGCACCTGGAT GATCTCAAGGGCACCTTTGCCCAGCTGAGTGAACTGCACTGTGACAAGCTGCATGTGGAT CCTGAGAACTTCAAGCTCCTGGGAAATGTGCTGGTGACCGTTTTGGCAATCCATTTCGGC AAAGAATTCACCCCTGAGGTGCAGGCTTCCTGGCAGAAGATGGTGACTGCAGTGGCCAGT GCCCTGTCCTCCAGATACCACTGA

>FGENESH: 3 3 exon (s) 39467 - 40898 147 aa, chain + MGHFTEEDKATITSLWGKVNVEDAGGETLGRLLVVYPWTQRFFDSFGNLSSASAIMGNPK VKAHGKKVLTSLGDAIKHLDDLKGTFAQLSELHCDKLHVDPENFKLLGNVLVTVLAIHFG KEFTPEVOASWOKMVTAVASALSSRYH

>FGENESH:[mRNA] 4 2 exon (s) 45995 - 47100 261 bp, chain + ATGGGCAACCCCAAAGTCAAGGCACATGGCAAGAAGGTGCTGATCTCCTTCGGAAAAGCTGTTATGCTCACGGATGACCTCAAAGGCACCTTTGCTACACTGAGTGACCTGCACTGTAACAAGGCACCTGAGAACTTCCTGGTGAGTACTCTTAGGCAACGTGATATTGAT

TGTTTTGGCAACCCACTTCAGCGAGGATTTTACCCTACAGATACAGGCTTCTTGGCAGTA ACTAACAATGCTGTGGTTAA

- >FGENESH: 4 2 exon (s) 45995 47100 86 aa, chain + MGNPKVKAHGKKVLISFGKAVMLTDDLKGTFATLSDLHCNKLHVDPENFLVSTLRQRDID CFGNPLORGFYPTDTGFLAVTNKCCG
- >FGENESH: 5 3 exon (s) 54790 56535 141 aa, chain + MVHLTPEEKTAVNALWGKVNVDAVGGEALGRLLVVYPWTQRFFESFGDLSSPDAVMGNPK VKAHGKKVLGAFSDGLAHLDNLKGTFSQLSELHCDKLHVDPENFRVCKKVPEALQIGSTC LFYKEYMGKEKSKGTVQGING
- >FGENESH: 6 3 exon (s) 62187 63610 147 aa, chain + MVHLTPEEKSAVTALWGKVNVDEVGGEALGRLLVVYPWTQRFFESFGDLSTPDAVMGNPK VKAHGKKVLGAFSDGLAHLDNLKGTFATLSELHCDKLHVDPENFRLLGNVLVCVLAHHFG KEFTPPVQAAYQKVVAGVANALAHKYH
- >FGENESH:[mRNA] 7 1 exon (s) 68183 68428 246 bp, chain + ATGGAACAAAGCTGGGCAGAGAATGACTTTGACGAGTTGAGAGAGGGAAGGCTTCAGAAGA TCAAACTACTCCAAGCTAAAGGAGGAAGTTCGAACAAACGGCAAAGAAGTAAAAAAACTTT GAAAAAAAATTAGATGAATGAATGAACTAGAATAACCAATGCACAGAAGTCCTTAAAGGAC CTGATGGAGCTGAAAAAACCAAGGCAGAGAACTACGTGACAAATACACAAGCCTCAGTAAC CGATGA
- >FGENESH: 7 1 exon (s) 68183 68428 81 aa, chain + MEQSWAENDFDELREEGFRRSNYSKLKEEVRTNGKEVKNFEKKLDEWITRITNAQKSLKD LMELKTKAGELRDKYTSLSNR

ATTAAGAAACTCACTCAAAACCACTCAGCTACATGGAAACTGAACAGCCTGCTCCTGAAT GACTACTGGGTACATAACAAAATGAAGGCAGAAATAAAGATGTTCTTTGAAACAACGAGA ACAAAGACACAACACCAGAATCTCTGAGACACATTCAAAGCAGTGTGTAGAGGGAAAT TTATAG

>FGENESH: 8 1 exon (s) 69467 - 70072 201 aa, chain + MAKGSIQEEELTILNIYAPNTGAPRFIKQVLSDLQRDLDAHTIIMGDFNTPLSTLDRSTR QKVNKDIQELDSALHQADLIDIYRTLHPKSTEYTFFSAPHHTYSKTDHIVGSKALLSKCK RTETITNCLSDHSAIKLELRIKKLTQNHSATWKLNSLLLNDYWVHNKMKAEIKMFFETTR TKTQHTRISETHSKQCVEGNL

>FGENESH: 9 1 exon (s) 70355 - 70819 154 aa, chain + MTRGITTDPTEIQTTVREYYKHLYANKLENLEEMDKFLDTYTLPRLNQEEVVSLNRPITG SEIEAIINSLSTKKSPGPVGFIAEFYQRYKEELVPFLLKLFQSIEKEGILPNSFYEASII LIPKPDRDTTKKENVTPISLMNIDAKILNKILAN

>FGENESH: 10 1 exon (s) 72135 - 72395 86 aa, chain + MGKDFMSKTPKRMATKDKMDKRDLIKLKSFCTAKETTIRVNRQPTKWEKIFAIYSSDKGL ISRIYNELKQIYKKKQTTPSKSGQRI