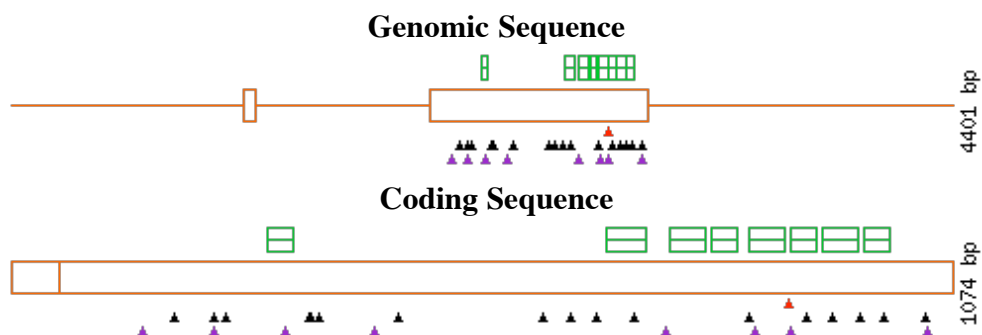


# sp5l

IPB007086, IPB006794, IPB001293, IPB002853, IPB008442, and IPB011715



For help interpreting these results, view the [PARSENP Introduction](#) page.

#	View On Sequence	Nucleotide Change	Effect	Restriction Enzyme Differences from REBASE		PSSM Difference	SIFT Score	Description	Zygoty
				Gained in Variant	Lost from Reference				
1	<a href="#">G C</a>	C2054T	L50=		<a href="#">BsiYI</a>			6683	Homo
2	<a href="#">G C</a>	T2091C	F63L	<a href="#">Cac8I</a> , <a href="#">Eco57MI</a> , <a href="#">GsuI</a> , <a href="#">SphI</a>				7770	Homo
3	<a href="#">G C</a>	C2135T	S77=	<a href="#">BseSI</a> , <a href="#">HgiAI</a> , <a href="#">SduI</a>	<a href="#">Eco47III</a> , <a href="#">HaeII</a> , <a href="#">HhaI</a>			2119	Homo
4	<a href="#">G C</a>	G2136A	A78T		<a href="#">Eco47III</a> , <a href="#">HaeII</a> , <a href="#">HhaI</a>			8235	Homo
5	<a href="#">G C</a>	C2149T	T82I	<a href="#">DpnI</a> , <a href="#">MboI</a> , <a href="#">MboII</a>				6141	Homo
6	<a href="#">G C</a>	C2216T	H104=					1469	Homo
7	<a href="#">G C</a>	G2244A	E114K	<a href="#">HindIII</a>	<a href="#">BsiI</a>			8594	Homo
8	<a href="#">G C</a>	A2245G	E114G	<a href="#">DsaI</a> , <a href="#">SecI</a>	<a href="#">AluI</a> , <a href="#">BsiI</a>			8293	Homo
9	<a href="#">G C</a>	A2256G	T118A	<a href="#">MwoI</a>				1602	Homo
10	<a href="#">G C</a>	G2318A	G138=		<a href="#">BsmI</a>			6417	Homo
11	<a href="#">G C</a>	C2345A	N147K	<a href="#">CviJI</a>				2496	Homo
12	<a href="#">G C</a>	C2511A	Q203K		<a href="#">BccI</a>			7617	Homo
13	<a href="#">G C</a>	C2542T	T213I	<a href="#">HinfI</a> , <a href="#">TfiI</a>	<a href="#">MnlI</a> , <a href="#">NlaIV</a>			1313	Homo
14	<a href="#">G C</a>	G2572T	R223L	<a href="#">BsmAI</a> , <a href="#">Esp3I</a>	<a href="#">Hpy99I</a>			7654	Homo
15	<a href="#">G C</a>	A2614T	N237I	<a href="#">HinfI</a> , <a href="#">Hpy188I</a> , <a href="#">TfiI</a>	<a href="#">TspGWI</a>	7.0	0.07	8075	Homo
16	<a href="#">G C</a>	A2651G	L249=	<a href="#">BsgI</a> , <a href="#">CviRI</a>				6194	Homo
17	<a href="#">G C</a>	A2745G	I281V		<a href="#">TspDTI</a>	-1.8	0.13	1608	Homo
18	<a href="#">G C</a>	C2753T	N283=	<a href="#">MfeI</a> , <a href="#">TspEI</a>	<a href="#">BsrI</a>			407	Homo





taaaagctacttttggtgtcatcttatcttattgtttaccttatttgaaaaattttaacttaactactatta 1565

18

tactctaaatatactgattaacataataacataacatttaaattaggtgaatttcaaacttgtttttagtttt 1637

18

tatcattgtaaacaattccaaaataatagtaagataataaaacttaatttactaaataaattgataaaatag 1709

18

atgtaagctgccttgttttcagttttgattttgtaattataccatttttttttacatttcaaaaaataattt 1781

18

aacataaaaaataaaaaataaaatggaattaaacttaagattattaacaattaatattaaataagaagaaa 1853

18

ttaaatatattttactttttgcatctccaactcaaaatattaaatgtgaaaaatatgaagaaaaagcatga 1925

D R T P S S S P E

27

cttatttgcaaatatttgttttcttccccctag gac cgc act ccc agc tca tct cca gaa 1985

S G P N T L S F L A T T C S Q A W Q 45

agt ggt cca aac acc ctc tcc ttt ctg gcc acc aca tgc agt cag gct tgg cag 2039

E G S Q L P Y E G P V G S A S S M F 63

gaa ggc tcg cag ctc cct tac gag ggt ccg gtg ggc tcc gca tcc agc atg ttc 2093

tL50=[1]

cF63L[2]

Q L W S N D V A P N S S L S A H Q M 81

cag ctc tgg agc aac gac gtg gcc ccg aac tcc agc tta agc gct cac cag atg 2147

tS77=[3]

aA78T[4]

IPB007086B (8.0e-05) IC 1.59

T F T V P K M Q F P S H M Q P T L G 99

acc ttc acc gtg ccc aaa atg cag ttt ccc agc cac atg caa ccc act ctg ggc 2201

tT82I[5]

S H S H H H H H H H H H E L P L 117

tcg cac tcc cat cac cac cat cac cac cat cat cac cac cac gag ctt ccc ctc 2255

tH104=[6]

aE114K[7]

gE114G[8]

T P P A E P P S A Y S F E L S P V K 135

act cct cca gcg gag cct ccg tct gca tat tca ttc gag ctt tcc ccg gtt aaa 2309

gT118A[9]

M Q G N A P Y Y T Q H N A V S Q N F 153

atg caa ggg aat gcg cca tac tac acg cag cac aac gcc gtc agt caa aac ttt 2363

aG138=[10]

aN147K[11]

P S F L Q N P S G R A H L P G G H V 171

cca agc ttc ctc caa aac ccc tca gga aga gct cac ctg cct gga ggt cac gtt 2417

E D G Q Q W W S L P Q G N S A P S G 189  
gag gat ggc cag cag tgg tgg agt ctc ccc cag ggt aac agc gct ccc tcc ggg 2471

H P F S L G R Q L V L G H Q P Q I A 207  
cac cct ttc tcc ttg gga cgg cag ctg gtt ttg ggc cat cag cct caa att gca 2525  
aQ203K[12]

A L L Q G T S K G L L S S T R R C R 225  
gca ctt ctg cag gga acc tcc aaa ggt ctg ttg agc tct act cgt cgc tgt cgc 2579  
tT213I[13] tR223L[14]

IPB002853B (1.6e-05) IC 1.87  
R C K C P N C O S T G N G G A A L E 243  
cga tgc aaa tgc cca aac tgc cag tcc aca gga aac gga ggt gct gca ttg gag 2633  
tN237I[15]

IPB007086A (5.2e-05) IC 1.06  
F G K K R L H I C H I P D C G K V Y 261  
ttt gga aag aaa aga cta cac att tgt cac att cca gat tgt ggg aag gtt tat 2687  
gL249=[16]

IPB007086B (1.7e-07) IC 1.59  
K K T S H L K A H L R W H A G E R P 279  
aaa aaa acc tct cac ctc aaa gcg cac ctg cgc tgg cat gct ggt gaa cgg ccc 2741

IPB007086A (2.9e-09) IC 1.06 IPB007086B (1.6e-11) IC 1.59  
F I C N W L F C G K S F T R S D E L 297  
ttc att tgc aac tgg ctc ttc tgc ggg aag agc ttc acg cgt tca gat gag ctg 2795  
gI281V[17] tN283=[18] tE296\*[19] aE296=[20]

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O R H L R T H T G E K R F G C O O C 315  
cag agg cat ctc cgt aca cac acc ggg gag aag cgt ttc ggc tgt cag cag tgt 2849  
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IPB007086B (4.0e-06) IC 1.59  
G K R F M R S D H L S K H V K T H O 333  
gga aaa cgg ttt atg cgg agc gat cat ctc tcc aag cat gtg aag acc cat cag 2903  
tD323V[23] tH332L[24]

S R K S R S S Q P P H S G T D A L L 351  
agc cgg aag agc cgg tcc agt cag cct cct cac agc ggg act gat gct ctg ctg 2957  
cD348A[25]  
cD348=[26]

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358  
tactgtatgtttcctgaaaactggagtaaagtctgcacaaaactgatgttataaagactgtaaagaga 3166

358



cggctgtttat

358  
4401

## Coding Sequence

M A A L T L S R A D N F L H N F L Q	18
atg gct gca tta acc tta tcc aga gcg gac aat ttc ctc cac aat ttc tta cag	54
D R T P S S S P E S G P N T L S F	35
gac cgc act ccc agc tca tct cca gaa agt ggt cca aac acc ctc tcc ttt	105
L A T T C S Q A W Q E G S Q L P Y E	53
ctg gcc acc aca tgc agt cag gct tgg cag gaa ggc tcg cag ctc cct tac gag	159
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	cF63L[2]
P N S S L S A H Q M T F T V P K M Q	89
ccg aac tcc agc tta agc gct cac cag atg acc ttc acc gtg ccc aaa atg cag	267
	tS77=[3] tT82I[5] aA78T[4]
	IPB007086B (8.0e-05) IC 1.59
F P S H M Q P T <u>L G S H S H H H H H</u>	107
ttt ccc agc cac atg caa ccc act ctg ggc tcg cac tcc cat cac cac cat cac	321
	tH104=[6]
H H H H H H E L P L T P P A E P P S	125
cac cat cat cac cac cac gag ctt ccc ctc act cct cca gcg gag cct ccg tct	375
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A Y S F E L S P V K M Q G N A P Y Y	143
gca tat tca ttc gag ctt tcc ccg gtt aaa atg caa ggg aat gcg cca tac tac	429
	aG138=[10]
T Q H N A V S Q N F P S F L Q N P S	161
acg cag cac aac gcc gtc agt caa aac ttt cca agc ttc ctc caa aac ccc tca	483
	aN147K[11]
G R A H L P G G H V E D G Q Q W W S	179
gga aga gct cac ctg cct gga ggt cac gtt gag gat ggc cag cag tgg tgg agt	537
L P Q G N S A P S G H P F S L G R Q	197
ctc ccc cag ggt aac agc gct ccc tcc ggg cac cct ttc tcc ttg gga cgg cag	591
L V L G H Q P Q I A A L L Q G T S K	215
ctg gtt ttg ggc cat cag cct caa att gca gca ctt ctg cag gga acc tcc aaa	645
	aQ203K[12] tT213I[13]

IPB002853B (1.6e-05) IC 1.87  
G L L S S T R R C R R C K C P N C Q 233  
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tR223L[14]

IPB007086A (5.2e-05) IC 1.06  
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IPB007086B (1.7e-07) IC 1.59  
C H I P D C G K V Y K K T S H L K A 269  
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IPB007086A (2.9e-09) IC 1.06  
H L R W H A G E R P F I C N W L F C 287  
cac ctg cgc tgg cat gct ggt gaa cgg ccc ttc att tgc aac tgg ctc ttc tgc 861  
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tN283=[18]

IPB007086B (1.6e-11) IC 1.59  
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tE296\*[19] tT303I[21]  
aE296=[20]

IPB007086A (2.4e-10) IC 1.06  
G E K R F G C O O C G K R F M R S D 323  
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aQ313K[22] tD323V[23]

IPB007086B (4.0e-06) IC 1.59  
H L S K H V K T H O S R K S R S S Q 341  
cat ctc tcc aag cat gtg aag acc cat cag agc cgg aag agc cgg tcc agt cag 1023  
tH332L[24]

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cct cct cac agc ggg act gat gct ctg ctg agc aac atc aag aga gag taa 1074  
cD348A[25]  
cD348=[26]