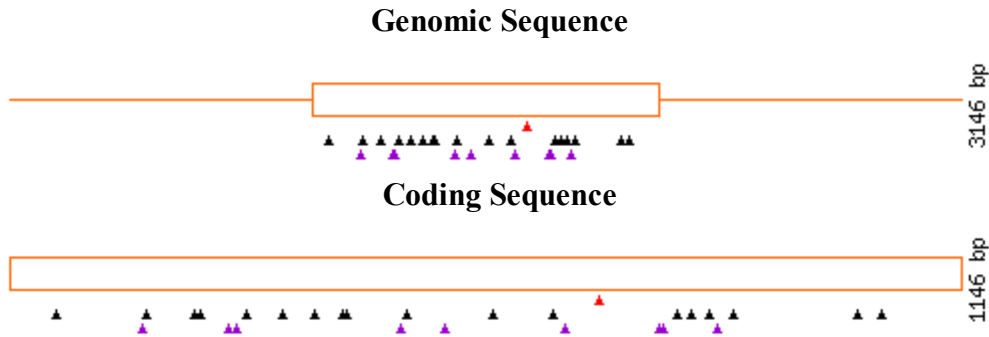


# cx43



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

#	View On Sequence	Nucleotide Change	Effect	Restriction Enzyme Differences from REBASE		Description	Zygoty
				Gained in Variant	Lost from Reference		
1	<a href="#">G C</a>	C1056T	T19M	<a href="#">NcoI</a> , <a href="#">NlaIII</a> , <a href="#">StyI</a>	<a href="#">BceI</a> , <a href="#">McrI</a> , <a href="#">XmaIII</a>	8466f	Homo
2	<a href="#">G C</a>	G1159A	K53=			2085f	Homo
3	<a href="#">G C</a>	A1164G	N55S	<a href="#">BsgI</a> , <a href="#">RsaI</a>		7031f	Homo
4	<a href="#">G C</a>	G1223A	V75M	<a href="#">NlaIII</a> , <a href="#">NspI</a>	<a href="#">BsaAI</a> , <a href="#">MaeII</a> , <a href="#">PmaCI</a>	2461f	Homo
5	<a href="#">G C</a>	T1229A	F77I	<a href="#">AlfI</a> , <a href="#">FspAI</a> , <a href="#">MslI</a> , <a href="#">MstI</a> , <a href="#">SfaNI</a>		7129f	Homo
6	<a href="#">G C</a>	G1264A	P88=		<a href="#">HgaI</a> , <a href="#">Hpy99I</a>	1644f	Homo
7	<a href="#">G C</a>	G1273T	L91=		<a href="#">RsaI</a>	5211f	Homo
8	<a href="#">G C</a>	A1284C	H95P	<a href="#">AcyI</a> , <a href="#">HaeII</a> , <a href="#">HgiCI</a> , <a href="#">NarI</a> , <a href="#">NlaIV</a>	<a href="#">NlaIII</a> , <a href="#">NspI</a>	415f	Homo
9	<a href="#">G C</a>	G1328A	E110K		<a href="#">Ksp632I</a> , <a href="#">MboII</a>	4153f	Homo
10	<a href="#">G C</a>	G1367A	V123I		<a href="#">Hpy99I</a> , <a href="#">MaeII</a>	2796f	Homo
11	<a href="#">G C</a>	A1401G	K134R	<a href="#">MnII</a>		7049f	Homo
12	<a href="#">G C</a>	A1406G	K136E		<a href="#">MseI</a>	7972f	Homo
13	<a href="#">G C</a>	C1471T	F157=		<a href="#">Eco57I</a> , <a href="#">Eco57MI</a> , <a href="#">MboII</a>	2026f	Homo
14	<a href="#">G C</a>	A1478G	I160V			7026f	Homo
15	<a href="#">G C</a>	C1525T	Y175=		<a href="#">HgiCI</a> , <a href="#">KpnI</a> , <a href="#">MnII</a> , <a href="#">NlaIV</a> , <a href="#">RsaI</a>	4527f	Homo
16	<a href="#">G C</a>	T1582G	H194Q	<a href="#">BseMII</a> , <a href="#">DdeI</a> , <a href="#">Hpy188I</a> , <a href="#">MnII</a>		3075f	Homo
17	<a href="#">G C</a>	T1655C	F219L	<a href="#">BseRI</a> , <a href="#">MnII</a>	<a href="#">Ksp632I</a> , <a href="#">MboII</a> , <a href="#">SapI</a>	6780f	Homo

18	<a href="#">G C</a>	C1669T	L223=	<a href="#">MseI</a>		1184f	Homo
19	<a href="#">G C</a>	A1709T	K237*	<a href="#">MaeI</a>		7491f	Homo
20	<a href="#">G C</a>	T1783A	S261=	<a href="#">HindII</a>	<a href="#">AccI</a>	4526f	Homo
21	<a href="#">G C</a>	G1786A	T262=			8147f	Homo
22	<a href="#">G C</a>	A1803G	Y268C	<a href="#">ApaBI</a> , <a href="#">BsrDI</a> , <a href="#">CviRI</a> , <a href="#">MwoI</a>		3417f	Homo
23	<a href="#">G C</a>	A1803G	Y268C	<a href="#">ApaBI</a> , <a href="#">BsrDI</a> , <a href="#">CviRI</a> , <a href="#">MwoI</a>		3433f	Homo
24	<a href="#">G C</a>	C1820T	P274S		<a href="#">HphI</a>	3413f	Homo
25	<a href="#">G C</a>	G1843T	M281I	<a href="#">TspEI</a>	<a href="#">MaeIII</a> , <a href="#">Tsp45I</a>	6105f	Homo
26	<a href="#">G C</a>	A1852C	P284=	<a href="#">CauII</a> , <a href="#">HpaII</a>	<a href="#">Eco57MI</a> , <a href="#">EcoRII</a> , <a href="#">GsuI</a>	7855f	Homo
27	<a href="#">G C</a>	G1871A	G291S		<a href="#">Cfr10I</a> , <a href="#">HpaII</a> , <a href="#">SgrAI</a>	4208f	Homo
28	<a href="#">G C</a>	C2021A	H341N		<a href="#">NlaIII</a>	5889f	Homo
29	<a href="#">G C</a>	T2050G	H350Q		<a href="#">NlaIII</a>	7210f	Homo

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No [protein homology model](#) was submitted. You may add one using any or all of the fields below.

**Blocks Families:**

**Blocks File:**

**Sequence Alignment:**

**-OR-**

## Genomic Sequence

```

tccccacttacagatTTtagcactgtaattatgctaaatacattccacataccccattcaaactTTTTtatta      0
                                                                                       72

gtgccacgagacccacaaattgtccaggatattgaagagatgctcttcttcatgctgcaccacatgaaaca      0
                                                                                       144

ggcagttctttagaacttcttaaacagttccttatgatatttgactttccatgctgcactgggaaattaatc      0
                                                                                       216

                                                                                       0
    
```

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aaagacttgcttcccaattcagatgttgaagcgaatgggtatctgtatctttaaacaatctctgaaatatctgg 288

aggacatcttgctgaataaacaaggggtctttaaataccctagtcagcaatgtcctatgcttggcaatgttt 0
360

tttaatgggtatcttaagatctttttaatcaatggatgatgactcacttgctgtataaaaaaactatcatgctag 0
432

cttttatttgtgaatgtttaattcactaagcaaaagccagttctggcagttatctttacaacctaataactta 0
504

accctacttgctgggagccacatgtttgttatccgagaccaggtgtagtttatattatgataaatcctgaggt 0
576

cagctttcatgattatcttataataaacatcctcagcaggtgctgaaactaacactttcattatgtgcctac 0
648

agtgacctcagattaaaaaaaaaagtttatggacacataagccacacttcaacgtgtttaaatgtcatcttt 0
720

gcattacataatcactacaacttttcaaaaaagccaagtaactaatatgtatatgactttatattatag 0
792

tagcatgaacttgaaggggaactgttttcataaatgcagtaaaagtgatggactgtttgggttaaagaaaat 0
864

aatgtgaagtattatttgtcactttgatagtgatcttaatacagtgacattaagacatattcaagtgatca 0
936

ccaaagtgctctaaatacatttgattacatatgagcttttctatcttccagctagaactccctcaag atg ggt M G 2
1006

D W S A L G R L L D K V Q A Y S T A 20
gac tgg agt gcg ttg gga agg ctt ctt gac aag gtg cag gcc tac tcc acg gcc 1060
tT19M[1]

G G K V W L S V L F I F R I L V L G 38
gga ggg aag gtc tgg ctc tct gtg ctc ttc atc ttc cgg atc ctt gtt ctg gga 1114

T A V E S A W G D E Q S A F K C N T 56
aca gca gtg gaa tcg gcc tgg ggt gac gag cag tca gct ttc aag tgc aat acc 1168
aK53=[2]
gN55S[3]

Q Q P G C E N V C Y D K S F P I S H 74
cag cag cct ggt tgc gag aat gtc tgc tat gac aaa tcg ttc ccc atc tcg cac 1222

V R F W V L Q I I F V S T P T L L Y 92
gtg cgc ttc tgg gtg ctt cag atc atc ttc gtg tcc acg ccg acg ctc ctg tac 1276
aV75M[4] aP88=[6] tL91=[7]

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## aF77I[5]

L A H V F Y L M R K E E K L N R K E	110
ctg gcg cat gtc ttc tac ctg atg cga aag gag gag aaa ctc aac cgt aaa gaa	1330
cH95P[8]	aE110K[9]
E E L K A V Q N D G G D V E L H L K	128
gag gag ctg aag gcc gtg cag aac gac ggc ggc gac gtt gag ctc cat ctc aag	1384
aV123I[10]	
K I E L K K F K H G L E E H G K V K	146
aaa atc gag ctc aag aag ttt aag cat ggc cta gag gag cac ggc aag gtg aag	1438
gK134R[11]	
gK136E[12]	
M K G S L L R T Y I F S I I F K S I	164
atg aag ggt agc ctg ctg cgc acc tac atc ttc agc atc att ttc aag tcc atc	1492
tF157=[13]	
gI160V[14]	
C E V V F L V I Q W Y L Y G F S L S	182
tgt gag gtg gtc ttc ctg gtc atc caa tgg tac ctc tac ggc ttc agc ctc tct	1546
tY175=[15]	
A V Y T C E R T P C P H R V D C F L	200
gcc gtg tac aca tgc gaa cgc acg cct tgc cct cat agg gtg gac tgt ttc ctt	1600
gH194Q[16]	
S R P T E K T I F I I F M L V V S L	218
tct cgg ccc acc gag aag acc atc ttc atc atc ttc atg cta gtg gtt tcg ctc	1654
F S L L L N I I E L F Y V L F K R I	236
ttc tcg ctt ttg ctc aac atc atc gag ctc ttc tac gtg ctc ttc aaa cga atc	1708
cF219L[17]	tL223=[18]
K D R V K S R Q N T Q F P T G T L S	254
aag gac cgc gtc aaa agc cga caa aac aca cag ttt ccc act ggc act ttg agc	1762
tK237*[19]	
P T P K E L S T T K Y A Y Y N G C S	272
ccc acg ccg aag gaa ctg tct acg acc aaa tac gcg tac tac aat ggt tgc tcc	1816
aS261=[20]	gY268C[22]
aT262=[21]	gY268C[23]
S P T A P L S P M S P P G Y K L A T	290
tca cca act gca ccg ctc tca cca atg tca cct cca ggc tac aaa ctg gcc acc	1870
tP274S[24]	tM281I[25]
cP284=[26]	
G E R T N S C R N Y N K Q A N E Q N	308
ggc gaa agg acc aac tct tgc cgc aat tac aac aag cag gct aat gag cag aat	1924
aG291S[27]	



```

          382
tttttattttctttatttttcctttattttttggagggcagacagaatgatttagttttttttttattagaatga 3074

          382
atagaaattaacgtcttacctttggagtgtaatgacctttttaactcaatgtaatcgttgctgcttgagagat 3146

```

## Coding Sequence

```

M   G   D   W   S   A   L   G   R   L   L   D   K   V   Q   A   Y   S   18
atg ggt gac tgg agt gcg ttg gga agg ctt ctt gac aag gtg cag gcc tac tcc 54

T   A   G   G   K   V   W   L   S   V   L   F   I   F   R   I   L   V   36
acg gcc gga ggg aag gtc tgg ctc tct gtg ctc ttc atc ttc cgg atc ctt gtt 108
tT19M[1]

L   G   T   A   V   E   S   A   W   G   D   E   Q   S   A   F   K   C   54
ctg gga aca gca gtg gaa tcg gcc tgg ggt gac gag cag tca gct ttc aag tgc 162
aK53=[2]

N   T   Q   Q   P   G   C   E   N   V   C   Y   D   K   S   F   P   I   72
aat acc cag cag cct ggt tgc gag aat gtc tgc tat gac aaa tcg ttc ccc atc 216
gN55S[3]

S   H   V   R   F   W   V   L   Q   I   I   F   V   S   T   P   T   L   90
tcg cac gtg cgc ttc tgg gtg ctt cag atc atc ttc gtg tcc acg ccg acg ctc 270
aV75M[4] aF77I[5] aP88=[6]

L   Y   L   A   H   V   F   Y   L   M   R   K   E   E   K   L   N   R   108
ctg tac ctg gcg cat gtc ttc tac ctg atg cga aag gag gag aaa ctc aac cgt 324
tL91=[7] cH95P[8]

K   E   E   E   L   K   A   V   Q   N   D   G   G   D   V   E   L   H   126
aaa gaa gag gag ctg aag gcc gtg cag aac gac ggc ggc gac gtt gag ctc cat 378
aE110K[9] aV123I[10]

L   K   K   I   E   L   K   K   F   K   H   G   L   E   E   H   G   K   144
ctc aag aaa atc gag ctc aag aag ttt aag cat ggc cta gag gag cac ggc aag 432
gK134R[11] gK136E[12]

V   K   M   K   G   S   L   L   R   T   Y   I   F   S   I   I   F   K   162
gtg aag atg aag ggt agc ctg ctg cgc acc tac atc ttc agc atc att ttc aag 486
tF157=[13] gI160V[14]

S   I   C   E   V   V   F   L   V   I   Q   W   Y   L   Y   G   F   S   180
tcc atc tgt gag gtg gtc ttc ctg gtc atc caa tgg tac ctc tac ggc ttc agc 540
tY175=[15]

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L S A V Y T C E R T P C P H R V D C	198
ctc tct gcc gtg tac aca tgc gaa cgc acg cct tgc cct cat agg gtg gac tgt	594
	gH194Q[16]
F L S R P T E K T I F I I F M L V V	216
ttc ctt tct cgg ccc acc gag aag acc atc ttc atc atc ttc atg cta gtg gtt	648
S L F S L L L N I I E L F Y V L F K	234
tcg ctc ttc tcg ctt ttg ctc aac atc atc gag ctc ttc tac gtg ctc ttc aaa	702
	cF219L[17]
	tL223=[18]
R I K D R V K S R Q N T Q F P T G T	252
cga atc aag gac cgc gtc aaa agc cga caa aac aca cag ttt ccc act ggc act	756
	tK237*[19]
L S P T P K E L S T T K Y A Y Y N G	270
ttg agc ccc acg ccg aag gaa ctg tct acg acc aaa tac gcg tac tac aat ggt	810
	aS261=[20]
	aT262=[21]
	gY268C[22]
	gY268C[23]
C S S P T A P L S P M S P P G Y K L	288
tgc tcc tca cca act gca ccg ctc tca cca atg tca cct cca ggc tac aaa ctg	864
	tP274S[24]
	tM281I[25]
	cP284=[26]
A T G E R T N S C R N Y N K Q A N E	306
gcc acc ggc gaa agg acc aac tct tgc cgc aat tac aac aag cag gct aat gag	918
	aG291S[27]
Q N W A N Y S T E Q N R L G Q N G S	324
cag aat tgg gcc aac tac agc aca gaa cag aat cgc ttg ggc cag aat ggc agc	972
T I S N S H A Q A F D Y P D D T H E	342
acc atc tcc aat tca cat gca caa gcc ttc gac tac cct gat gat aca cat gag	1026
	aH341N[28]
H K K L T P G H E L Q P L A L I D A	360
cac aag aaa ctg acg cca ggg cat gag ttg cag cca ttg gcg ttg ata gat gca	1080
	gH350Q[29]
R P C S R A S S R M S S R A R P D D	378
cgg ccg tgc agc cgt gcc agc agc cgc atg agc agt cga gcg agg cct gat gac	1134
L D V *	382
ctg gac gtc tag	1146