

Table S1: Genes involved in sex-determination on vertebrate species used on tblastn against *Apareiodon* sp. genome.

ID	Gene name	Species	Reference
ENSPNAG00000021007	ctnnb1	<i>Pygocentrus nattereri</i>	(Capel 2017)
ENSPNAG00000012604	esr1	<i>Pygocentrus nattereri</i>	(Paixão et al. 2022)
ENSPNAG00000023408	lhb	<i>Pygocentrus nattereri</i>	(Horie et al. 2014)
ENSPNAG00000018585	nr3c2	<i>Pygocentrus nattereri</i>	(Torres Martínez et al. 2024)
ENSPNAG00000009112	paics	<i>Pygocentrus nattereri</i>	(Kitano et al. 2024)
ENSPNAG00000020636	fgf20b	<i>Pygocentrus nattereri</i>	(Biscotti et al. 2018)
ENSPNAG00000010593	nr3c1	<i>Pygocentrus nattereri</i>	(Goikoetxea et al. 2022)
ENSPNAG00000023678	gdf9	<i>Pygocentrus nattereri</i>	(Wang et al. 2024)
ENSPNAG00000026277	sox9b	<i>Pygocentrus nattereri</i>	(Curzon et al. 2023)
ENSPNAG00000035520	CYP19A1	<i>Pygocentrus nattereri</i>	(Kitano et al. 2024)
ENSPNAG00000000383	cyp11a2	<i>Pygocentrus nattereri</i>	(Hayashida et al. 2023)
ENSPNAG00000030870	srd5a2	<i>Pygocentrus nattereri</i>	(Biscotti et al. 2018)
ENSPNAG00000011729	cyp26a1	<i>Pygocentrus nattereri</i>	(Biscotti et al. 2018)
ENSPNAG00000030358	fshr	<i>Pygocentrus nattereri</i>	(Kitano et al. 2024)
ENSPNAG00000029104	hsd17b1	<i>Pygocentrus nattereri</i>	(Kitano et al. 2024)
ENSPNAG00000032455	sox10	<i>Pygocentrus nattereri</i>	(Biscotti et al. 2018)
ENSPNAG00000014524	dmrt1	<i>Pygocentrus nattereri</i>	(Kitano et al. 2024)
ENSPNAG00000033343	wnt4	<i>Pygocentrus nattereri</i>	(Kitano et al. 2024)
ENSPNAG00000000189	hdac11	<i>Pygocentrus nattereri</i>	(Díaz et al. 2015)
ENSPNAG00000015029	pdgfb	<i>Pygocentrus nattereri</i>	(Biscotti et al. 2018)
ENSPNAG00000026554	srd5a1	<i>Pygocentrus nattereri</i>	(Biscotti et al. 2018)
ENSPNAG00000031076	amh	<i>Pygocentrus nattereri</i>	(Kitano et al. 2024)
ENSPNAG00000011647	irf9	<i>Pygocentrus nattereri</i>	(Herpin; Scharl 2015)
ENSPNAG00000019740	fgf16	<i>Pygocentrus nattereri</i>	(Biscotti et al. 2018)
ENSPNAG00000020636	fgf20	<i>Pygocentrus nattereri</i>	(Biscotti et al. 2018)
ENSPNAG00000025510	fgf24	<i>Pygocentrus nattereri</i>	(Biscotti et al. 2018)
ENSPNAG00000010351	ptch2	<i>Pygocentrus nattereri</i>	(Biscotti et al. 2018)
ENSPNAG00000019049	hhip	<i>Pygocentrus nattereri</i>	(Biscotti et al. 2018)
ENSPNAG00000035587	dhh	<i>Pygocentrus nattereri</i>	(Biscotti et al. 2018)
ENSPNAG00000002419	pdgfa	<i>Pygocentrus nattereri</i>	(Biscotti et al. 2018)
ENSPNAG00000006989	pdgfra	<i>Pygocentrus nattereri</i>	(Biscotti et al. 2018)
ENSPNAG00000011017	pdgfrb	<i>Pygocentrus nattereri</i>	(Biscotti et al. 2018)
ENSPNAG00000009614	srd5a3	<i>Pygocentrus nattereri</i>	(Biscotti et al. 2018)
ENSPNAG00000019133	sox8	<i>Pygocentrus nattereri</i>	(Herpin; Scharl 2015)
ENSPNAG00000019996	wt1	<i>Pygocentrus nattereri</i>	(Capel 2017)
ENSPNAG00000030886	gata4	<i>Pygocentrus nattereri</i>	(Capel 2017)
ENSPNAG00000002895	lrpprc	<i>Pygocentrus nattereri</i>	(Biscotti et al. 2018)
ENSPNAG00000022067	pax2	<i>Pygocentrus nattereri</i>	(Biscotti et al. 2018)
ENSPNAG00000024763	aldh1a1	<i>Pygocentrus nattereri</i>	(Biscotti et al. 2018)
ENSPNAG00000020770	aldh1a2	<i>Pygocentrus nattereri</i>	(Biscotti et al. 2018)
ENSPNAG00000031588	aldh1a3	<i>Pygocentrus nattereri</i>	(Biscotti et al. 2018)
ENSPNAG00000019073	cyp26b1	<i>Pygocentrus nattereri</i>	(Biscotti et al. 2018)
ENSPNAG00000005098	cyp26c1	<i>Pygocentrus nattereri</i>	(Biscotti et al. 2018)
ENSPNAG00000032310	fst	<i>Pygocentrus nattereri</i>	(Biscotti et al. 2018)
ENSPNAG00000001057	ar	<i>Pygocentrus nattereri</i>	(Biscotti et al. 2018)
ENSPNAG00000018028	esra2a	<i>Pygocentrus nattereri</i>	(Biscotti et al. 2018)
ENSPNAG00000012604	esr1	<i>Pygocentrus nattereri</i>	(Biscotti et al. 2018)
ENSPNAG00000036124	fshb	<i>Pygocentrus nattereri</i>	(Curzon et al. 2023)
ENSPNAG00000004429	gdf6b	<i>Pygocentrus nattereri</i>	(Kitano et al. 2024)
ENSPNAG00000020132	bmpr1bb	<i>Pygocentrus nattereri</i>	(Kitano et al. 2024)
ENSPNAG00000033999	gdf6Y	<i>Pygocentrus nattereri</i>	(Kitano et al. 2024)
ENSPNAG00000031199	id2b	<i>Pygocentrus nattereri</i>	(Kitano et al. 2024)
ENSPNAG00000034415	sult1st6	<i>Pygocentrus nattereri</i>	(Kitano et al. 2024)
ENSPNAG00000017102	bcar1	<i>Pygocentrus nattereri</i>	(Kitano et al. 2024)

Table S2: 362 genes from the *Apareiodon* sp. cs25 scaffold as annotated on Wolf et al. (2024).

Gene ID	Gene name
cusr	Copper-only SOD repeat protein
xpnpep1	X-prolyl aminopeptidase 1
si:dkey-246e1.3	uncharacterized protein si:dkey-246e1.3
tmem186	transmembrane protein 186
gde1	glycerophosphodiester phosphodiesterase 1
slx4	SLX4 structure-specific endonuclease subunit
crebbpa	CREB-binding protein
adcy9	adenylate cyclase type 9
SRL	sarcalumenin-like
glis2a	GLIS family zinc finger 2a
ahr2	aryl hydrocarbon receptor 2
ahr1b	aryl hydrocarbon receptor 1b
CPN2	carboxypeptidase N subunit 2
mfsd6a	major facilitator superfamily domain-containing protein 6-A
nab1a	NGFI-A-binding protein 1a
PARP14	protein mono-ADP-ribosyltransferase PARP14-like
glis2a	glutaminase a isoform X1
mstna	myostatin a
ftcd	formimidoyltransferase-cyclodeaminase
cnot9	CCR4-NOT transcription complex subunit 9
plcd4a	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase delta-4
LOC119264077	uncharacterized protein LOC119264077
adarb1	double-stranded RNA-specific editase 1a
cep70	centrosomal protein of 70 kDa
krt222	keratin-like protein KRT222
crygs2	crystallin, gamma S2 isoform X2
mettl21a	protein N-lysine methyltransferase METTL21A
dpp4	dipeptidyl peptidase 4
ECT1	ethanolamine-phosphate cytidyltransferase
gnav1	guanine nucleotide binding protein (G protein) alpha v1
cntnap5b	contactin-associated protein-like 5
phkb	phosphorylase b kinase regulatory subunit beta
itfg1	integrin alpha FG-GAP repeat containing 1
neto2b	neuropilin and tolloid-like protein 2
dnaja2a	dnaJ homolog subfamily A member 2a
C16orf87	UPF0547 protein C16orf87 homolog
mylk3	myosin light chain kinase 3 isoform X1
orc6	origin recognition complex subunit 6
vps35	vacuolar protein sorting-associated protein 35
hrh3	histamine H3 receptor
MRPS28	28S ribosomal protein S28, mitochondrial
SDE2	replication stress response regulator SDE2
Wdr83	WD repeat domain-containing protein 83
PSPN	persephin
C3-like	complement C3-like
dnaja3b	dnaJ heat shock protein family (Hsp40) member A3b
vasna	vasorin a isoform X2
B3GALT2	beta-1,3-galactosyltransferase 2-like
glis2a	GLIS family zinc finger 2a
B3GALT2	beta-1,3-galactosyltransferase 2-like
vasna	vasorin a, transcript variant X1
B3GALT2	beta-1,3-galactosyltransferase 2-like
B3GALT2	beta-1,3-galactosyltransferase 2-like, transcript variant X2
B3GALT2	beta-1,3-galactosyltransferase 2-like
s100b	S100 calcium binding protein B
SH3BP4	SH3 domain-binding protein 4-A
B-cadherin-like	B-cadherin-like
ciao2b	cytosolic iron-sulfur assembly component 2B

LOXL4	lysyl oxidase homolog 4
ATL2	atlastin-2
slc22a31	solute carrier family 22 member 31
ankrd11	ankyrin repeat domain-containing protein 11
spg7	paraplegin
cdh15	cadherin-15
acsf3	acyl-CoA synthetase family member 3
mindy2	ubiquitin carboxyl-terminal hydrolase MINDY-2
adam10a	ADAM metallopeptidase domain 10a
add3	adducin 3 (gamma) a
dusp5	dual specificity protein phosphatase 5
smc3	structural maintenance of chromosomes protein 3
RBM20	RNA-binding protein 20
pdc4b	programmed cell death protein 4b
shoc2	SHOC2 leucine rich repeat scaffold protein
adra2a	alpha-2A adrenergic receptor
pdgfra	platelet-derived growth factor beta polypeptide a
NCF-4	neutrophil cytosol factor 4
pvalb7	parvalbumin-7
BAIAP2	brain-specific angiogenesis inhibitor 1-associated protein 2-like protein 2
pla2g6	phospholipase A2 group VI
cbx6a	chromobox protein homolog 6a
EPHX1	epoxide hydrolase 1-like
gtpbp2b	GTP-binding protein 2b
ASPP2	apoptosis-stimulating of p53 protein 2b
col8a1b	collagen alpha-1(VIII) chain
jag1b	jagunal homolog 1b
abi3bpb	ABI family, member 3 (NESH) binding protein b
Impg2	interphotoreceptor matrix proteoglycan 2
Impg2	interphotoreceptor matrix proteoglycan 2
GPATCH1	G patch domain-containing protein 1
GPATCH1	G patch domain-containing protein 1
slc7a10a	solute carrier family 7 member 10a
rhpn2	rhophilin-2
cep89	centrosomal protein of 89 kDa
cep89	centrosomal protein of 89 kDa
RNF182	E3 ubiquitin-protein ligase RNF182
cep89	centrosomal protein of 89 kDa
tpbp3	tubulin polymerization-promoting protein family member 3
tpbp3	tubulin polymerization-promoting protein family member 3
C21orf58	uncharacterized protein C21orf58
PJVK	pejvakin
irx5a	iroquois-class homeodomain protein IRX-5a
irx6a	iroquois-class homeodomain protein IRX-6a
mmp2	matrix metallopeptidase 2
chrn4a	cholinergic receptor, muscarinic 4a
mdka	midkine a
Dgkz	diacylglycerol kinase zeta
Dgkz	diacylglycerol kinase zeta
creb3l1	cyclic AMP-responsive element-binding protein 3-like protein 1
phf21aa	PHD finger protein 21Aa
RERG	ras-related and estrogen-regulated growth inhibitor
Harbi1	putative nuclease HARBI1
atg13	autophagy-related protein 13
si:dkey-23n7	SPRY domain-containing SOCS box protein 3
ARHGAP1	rho GTPase-activating protein 1
syt13	synaptotagmin-13
ace2	angiotensin-converting enzyme 2
ace2	angiotensin-converting enzyme 2
NHS	NHS actin remodeling regulator

NHS	NHS actin remodeling regulator
SCML2	sex comb on midleg-like protein 2
cdk15	cyclin-dependent kinase-like 5
rs1a	retinoschisin 1a
PPEF1	serine/threonine-protein phosphatase with EF-hands 1
PTPN4	tyrosine-protein phosphatase non-receptor type 4b
mras	ras-related protein M-Ras
PTH2R	parathyroid hormone 2 receptor
LCE	low choriolytic enzyme-like
C1QTNF4	complement C1q tumor necrosis factor-related protein 4
NDUFS3	NADH dehydrogenase [ubiquinone] iron-sulfur protein 3
celf1	CUGBP Elav-like family member 1
NUDT19	nudix hydrolase 19
LOC108432365	b(0,+)-type amino acid transporter 1-like
zgc:165481	uncharacterized protein LOC100073327
cep89	centrosomal protein of 89 kDa
rhpn2	rhophilin-2
slc7a10a	solute carrier family 7 member 10a
cln6a	ceroid-lipofuscinosis neuronal protein 6a
RFX7	DNA-binding protein RFX7
igdcc4	immunoglobulin superfamily DCC subclass member 4
igdcc3	immunoglobulin superfamily DCC subclass member 3
igdcc3	immunoglobulin superfamily DCC subclass member 3
CCDC106	coiled-coil domain-containing protein 106-like
cilp	cartilage intermediate layer protein 1
strc1	uncharacterized protein strc1
strc1	uncharacterized protein strc1
CTDSPL2	CTD small phosphatase-like protein 2-B
golm2	golgi membrane protein 2
fam189a1	family with sequence similarity 189 member A1
tjpl1a	tight junction protein 1a isoform X2
tjpl1a	tight junction protein 1a isoform X10
tjpl1a	tight junction protein 1a isoform X6
NAT	arylamine N-acetyltransferase
abcc12	ATP binding cassette subfamily C member 12
cebpg	CCAAT/enhancer binding protein gamma
cebpa	CCAAT enhancer binding protein alpha
heatr3	HEAT repeat containing 3
tent4b	terminal nucleotidyltransferase 4B
adcy7	adenylate cyclase 7
brd7	bromodomain containing 7
nkd1	protein naked cuticle homolog 1
nod2	nucleotide-binding oligomerization domain-containing protein 2
cylda	ubiquitin carboxyl-terminal hydrolase CYLD
sal1a	sal-like protein 1a
LOC108413126	uncharacterized LOC108413126
tox3	TOX high mobility group box family member 3
chd9	chromodomain-helicase-DNA-binding protein 9
aktip	AKT-interacting protein
si:dkey-75a21.2	uncharacterized LOC108424899
fto	FTO alpha-ketoglutarate dependent dioxygenase
irx3a	iroquois-class homeodomain protein IRX-3a
galr1b	galanin receptor 1b
ddx28	DEAD-box helicase 28
nfatc3a	nuclear factor of activated T cells 3a
esrp2	epithelial splicing regulatory protein 2
si:dkey-148a17.6	leukotriene B4 receptor 1
si:dkey-148a17.5	BLT1-like protein
plekhg4	pleckstrin homology and RhoGEF domain containing G4
atp6v0d1	V-type proton ATPase subunit d 1

agrp	agouti-related protein
agrp	agouti-related protein
ctrb1	chymotrypsin A-like
ctrb.3	chymotrypsinogen B, tandem duplicate 3
slc9a5	solute carrier family 9 member A5
cars1	cysteinyl-tRNA synthetase 1
mybpc3	myosin-binding protein C, cardiac-type
mybpc3	myosin-binding protein C, cardiac-type
lin7c	lin-7 homolog C, crumbs cell polarity complex component
bdnf	brain-derived neurotrophic factor
kif18a	kinesin-like protein KIF18A
kcna4	potassium voltage-gated channel subfamily A member 2
fshb	follicle stimulating hormone subunit beta
arl14ep	ARF like GTPase 14 effector protein
hypothetical protein	uncharacterized protein HI_0077
spi1b	Spi-1 proto-oncogene b
slc39a13	solute carrier family 39 member 13
tmem178b	transmembrane protein 178B
gas2b	growth arrest-specific 2b
slc17a6b	solute carrier family 17 member 6b
ano5b	anoctamin-5b
tssc4	tumor suppressing subtransferable candidate 4
pkp3b	plakophilin-3
kcnc1a	potassium voltage-gated channel subfamily C member 1a
tph1b	tryptophan 5-hydroxylase 1b
coro2ba	coronin-2B isoform X3
anp32a	acidic leucine-rich nuclear phosphoprotein 32 family member A
glceb	D-glucuronyl C5-epimerase B
LOC119264077	uncharacterized LOC119264077
tle3b	transducin-like enhancer protein 3-B
smad3a	mothers against decapentaplegic homolog 3a
smad3a	mothers against decapentaplegic homolog 3a
smad6a	mothers against decapentaplegic homolog 6a
crybgx	crystallin beta gamma X
lctla	lactase-like a
tle3b	transducin-like enhancer protein 3-B
uacab	uveal autoantigen with coiled-coil domains and ankyrin repeats protein
uacab	uveal autoantigen with coiled-coil domains and ankyrin repeats protein
LOC108430825	relaxin-3 receptor 1
pias1a	E3 SUMO-protein ligase PIAS1
skor1a	SKI family transcriptional corepressor 1a
map2k5	dual specificity mitogen-activated protein kinase kinase 5
smad3a	mothers against decapentaplegic homolog 3a
smad6a	mothers against decapentaplegic homolog 6a
crybgx	crystallin beta gamma X
lctla	lactase-like a isoform X1
tipin	TIMELESS-interacting protein
dis3l	DIS3-like exonuclease 1
FIBIN	fin bud initiation factor
bbox1	gamma-butyrobetaine dioxygenase
madd	MAP-kinase activating death domain
nr1h3	nuclear receptor subfamily 1, group H, member 3
znf536	zinc finger protein 536
znf536	zinc finger protein 536
znf536	zinc finger protein 536
tshz3b	teashirt homolog 3b
znf507	zinc finger protein 507
dpy19l3	dpy-19 like C-mannosyltransferase 3
mtss1lb	protein MTSS 2
wfs1a	wolframin

wfs1a	wolframin
ppp2r2ca	protein phosphatase 2, regulatory subunit B, gamma a
dnajb14	dnaJ homolog subfamily B member 14
LOC108412539	uncharacterized protein K02A2.6-like
il1rap1b	interleukin-1 receptor accessory protein-like 1-B
Dmx-like 2	dmX-like protein 2
gldn	gliomedin
gldn	gliomedin
CYP19A1	aromatase
nr0b1	nuclear receptor subfamily 0 group B member 1
gucy1b2	guanylate cyclase soluble subunit beta-2
plekha3	pleckstrin homology domain-containing family A member 3
cybb	cytochrome b-245 heavy chain
grpr	gastrin-releasing peptide receptor
mgat5	alpha-1,6-mannosylglycoprotein 6-beta-N-acetylglucosaminyltransferase A
tmem163b	transmembrane protein 163
ccnt2b	cyclin-T2b
zranb3	zinc finger, RAN-binding domain containing 3
LOC108425729	R3H domain-containing protein 1
rnd3a	rho family GTPase 3a
LOC108425725	C-C chemokine receptor type 5-like
LOC108425725	C-C chemokine receptor type 5-like
tgm8	protein-glutamine gamma-glutamyltransferase 2
tgm8	protein-glutamine gamma-glutamyltransferase 2
LOC119263251	uncharacterized LOC119263251
nptxrb	neuronal pentraxin receptor b
polr3f	DNA-directed RNA polymerase III subunit RPC6
dzank1	double zinc ribbon and ankyrin repeat-containing protein 1
kat14	cysteine-rich protein 2-binding protein
pet117	protein PET117 homolog, mitochondrial
aars2	alanyl-tRNA synthetase 2, mitochondrial (putative)
capn8	calpain-2 catalytic subunit-like
LOC108436620	calpain-2 catalytic subunit-like
LOC119262462	calpain-2 catalytic subunit-like
LOC108443480	calpain-2 catalytic subunit-like
LOC108443477	calpain-2 catalytic subunit-like
LOC108443488	calpain-1 catalytic subunit-like
LOC108414579	ADP-ribosylation factor-like protein 4C
LOC119262460	high choriolytic enzyme 1-like
LOC108416565	high choriolytic enzyme 1-like
LOC119262460	high choriolytic enzyme 1-like
LOC119262460	high choriolytic enzyme 1-like
LOC119262460	high choriolytic enzyme 1-like
LOC119262460	high choriolytic enzyme 1-like
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LOC119262460	high choriolytic enzyme 1-like
LOC119262460	high choriolytic enzyme 1-like
LOC119262460	high choriolytic enzyme 1-like
LOC108414284	UDP-glucuronosyltransferase-like
LOC108414284	UDP-glucuronosyltransferase-like
ugt1b2	UDP-glucuronosyltransferase-like
tmem169a	transmembrane protein 169a
pecr	peroxisomal trans-2-enoyl-CoA reductase
map4k3a	mitogen-activated protein kinase kinase kinase kinase 3a
tmem178	transmembrane protein 178
tmem178	transmembrane protein 178
slc8a1a	solute carrier family 8 member 1a

pgap4	post-GPI attachment to proteins GalNAc transferase 4
tpcn3	two pore segment channel 3
tpcn3	two pore segment channel 3
ttbk1a	tau tubulin kinase 1a
ttbk1a	tau tubulin kinase 1a
LOC108438552	proline-rich protein 5-like
traf6	TNF receptor-associated factor 6
acana	aggrecan a
HAPLN3	hyaluronan and proteoglycan link protein 3-like
mfge8a	milk fat globule EGF and factor V/VIII domain containing a
cpt1aa	carnitine palmitoyltransferase 1Aa (liver)
LOC108438547	SITS-binding protein-like
igf2a	insulin-like growth factor 2a
si:ch211-288d18.1	USP6 N-terminal-like protein
b4galnt4b	beta-1,4-N-acetyl-galactosaminyl transferase 4b
abtb2a	ankyrin repeat and BTB/POZ domain-containing protein 2
brsk2b	BR serine/threonine kinase 2b
tsg101b	tumor susceptibility gene 101 protein
hrasb	HRas proto-oncogene, GTPase b
rassf7b	ras association domain-containing protein 7b
ascl1b	achaete-scute family bHLH transcription factor 1b
fjx1	four-jointed box protein 1
pamr1a	peptidase domain containing associated with muscle regeneration 1a
cd44a	CD44 molecule (IN blood group) a
LOC108442647	APAF1 interacting protein
lrrc4cb	leucine rich repeat containing 4C, genome duplicate b
hsd17b12b	hydroxysteroid (17-beta) dehydrogenase 12b
ttc17	tetratricopeptide repeat protein 17
mfap1	microfibrillar-associated protein 1
hypk	huntingtin-interacting protein K
serinc4	serine incorporator 4 isoform X1
adamts15	ADAMTS-like protein 5
crtc3	CREB-regulated transcription coactivator 3
iqgap1	ras GTPase-activating-like protein IQGAP1
cartl	cocaine- and amphetamine-regulated transcript-like
cart3	cocaine- and amphetamine-regulated transcript 3
cdkn2aip	CDKN2A-interacting protein
tubgcp4	tubulin gamma complex component 4
tp53bp1	TP53-binding protein 1
map1aa	microtubule-associated protein 1Aa
ppip5k1a	diphosphoinositol pentakisphosphate kinase 1a
znf280d	zinc finger protein 280D
tcf12	transcription factor 12
cgnl1	cingulin-like 1
cgnl1	cingulin-like 1
myzap	myocardial zonula adherens protein-like
aldh1a2	aldehyde dehydrogenase 1 family, member A2
aqp9b	aquaporin 9b
lipca	lipase, hepatic a
adam10a	ADAM metallopeptidase domain 10a
LOC119261807	uncharacterized LOC119261807
LOC108432375	b(0,+)-type amino acid transporter 1-like
nudt19	nudix (nucleoside diphosphate linked moiety X)-type motif 19
celfl	cugbp, Elav-like family member 1
ndufs3	NADH:ubiquinone oxidoreductase core subunit S3
c1qtnf4	C1q and TNF related 4
phkb	phosphorylase kinase, beta
phkb	phosphorylase kinase, beta
phkb	phosphorylase kinase, beta
LOC108439465	leukotriene B4 receptor 1-like

LOC108439464	C3a anaphylatoxin chemotactic receptor-like
adamts18	ADAM metallopeptidase with thrombospondin type 1 motif, 18
LOC119264156	uncharacterized LOC119264156
cdh8	cadherin 8

Table S3: Blastn results using *Apareiodon* sp. Helitron consensus sequences as query on cs25 scaffold.

Consensus	% identity	Length (bp)	Orientation on scaffold		Orientation on consensus	
			start	end	start	end
Helitron-6_AP	96.667	90	468126	468215	11647	11736
Helitron-6_AP	92.222	90	469572	469661	11647	11736
Helitron-11_AP	98.529	68	471379	471446	8944	9011
Helitron-11_AP	97.059	68	472894	472961	8944	9011
Helitron-11_AP	98.529	68	474687	474754	8944	9011
Helitron-6_AP	96.667	90	475713	475802	11647	11736
Helitron-11_AP	98.571	70	477602	477671	8942	9011
Helitron-6_AP	94.444	90	478353	478442	11647	11736
Helitron-6_AP	95.455	88	479125	479212	11646	11732
Helitron-11_AP	98.529	68	480117	480184	8944	9011
Helitron-6_AP	96.703	91	480955	481045	11646	11736
Helitron-11_AP	100.000	68	483243	483310	8944	9011
Helitron-11_AP	98.529	68	484833	484900	8944	9011
Helitron-11_AP	95.714	70	486686	486755	8944	9011
Helitron-11_AP	98.529	68	488319	488386	8944	9011
Helitron-6_AP	92.222	90	489743	489832	11647	11736
Helitron-1_AP	88.618	123	2645468	2645587	1462	1584
Helitron-6_AP	92.222	90	3129520	3129609	11736	11647
Helitron-8_AP	98.611	72	3130968	3131039	10878	10807
Helitron-8_AP	98.611	72	3132599	3132670	10878	10807
Helitron-8_AP	98.611	72	3134450	3134521	10878	10807
Helitron-8_AP	100.000	72	3136036	3136107	10878	10807
Helitron-1_AP	94.488	127	3388836	3388962	1458	1584
Helitron-6_AP	90.816	98	4261881	4261978	11639	11736
Helitron-11_AP	98.529	68	5668667	5668734	8944	9011
Helitron-11_AP	98.551	69	5670949	5671017	8944	9011
Helitron-11_AP	98.529	68	5673265	5673332	8944	9011
Helitron-11_AP	100.000	68	5674497	5674564	8944	9011
Helitron-11_AP	97.143	70	5676084	5676153	8942	9011
Helitron-11_AP	100.000	68	5677277	5677344	8944	9011
Helitron-11_AP	98.529	68	5678596	5678663	8944	9011
Helitron-6_AP	95.604	91	5679847	5679937	11646	11736
Helitron-11_AP	98.529	68	5681543	5681610	8944	9011
Helitron-6_AP	96.703	91	5682334	5682424	11646	11736
Helitron-6_AP	97.802	91	5683859	5683949	11646	11736
Helitron-11_AP	100.000	68	5685648	5685715	8944	9011
Helitron-11_AP	98.529	68	5687271	5687338	8944	9011
Helitron-11_AP	98.529	68	5688975	5689042	8944	9011
Helitron-11_AP	98.529	68	5690407	5690474	8944	9011
Helitron-6_AP	98.889	90	5691636	5691725	11647	11736

Helitron-11_AP	97.059	68	5730207	5730274	8944	9011
Helitron-11_AP	100.000	68	5732258	5732325	8944	9011
Helitron-11_AP	100.000	68	5733852	5733919	8944	9011
Helitron-11_AP	97.059	68	5735779	5735846	8944	9011
Helitron-11_AP	98.529	68	5737414	5737481	8944	9011
Helitron-11_AP	100.000	68	5739355	5739422	8944	9011
Helitron-6_AP	96.667	90	5740940	5741029	11647	11736
Helitron-11_AP	97.101	69	5742665	5742733	8944	9011
Helitron-11_AP	100.000	68	5744024	5744091	8944	9011
Helitron-11_AP	98.551	69	5745410	5745478	8944	9011
Helitron-8_AP	94.444	72	5749024	5749094	10807	10878
Helitron-8_AP	96.923	65	5750366	5750430	10805	10869
Helitron-11_AP	98.529	68	5752209	5752275	8944	9011
Helitron-11_AP	100.000	68	5754488	5754555	8944	9011
Helitron-6_AP	96.667	90	5755698	5755787	11647	11736
Helitron-8_AP	97.333	75	5760855	5760929	10878	10804
Helitron-6_AP	97.778	90	5762210	5762299	11736	11647
Helitron-6_AP	96.629	89	5763433	5763521	11734	11646
Helitron-8_AP	100.000	64	5764290	5764353	10878	10815
Helitron-6_AP	95.604	91	5765008	5765098	11736	11646
Helitron-8_AP	97.297	74	5765912	5765985	10878	10805
Helitron-8_AP	98.649	74	5766897	5766970	10878	10805
Helitron-8_AP	100.000	72	5768122	5768193	10878	10807
Helitron-8_AP	98.611	72	5769564	5769635	10878	10807
Helitron-8_AP	98.611	72	5771315	5771386	10878	10807
Helitron-6_AP	97.778	90	5772996	5773085	11736	11647
Helitron-6_AP	95.652	92	5774736	5774827	11736	11646
Helitron-6_AP	97.005	4541	5775661	5780176	11736	7235
Helitron-8_AP	88.145	717	5776157	5776833	10550	9850
Helitron-9_AP	95.139	3065	5780166	5783226	4729	1686
Helitron-11_AP	76.451	1465	5780183	5781632	4433	2984
Helitron-12_AP	84.642	293	5782871	5783161	9212	8925
Helitron-12_AP	87.437	398	5782897	5783292	9400	9007
Helitron-9_AP	84.567	473	5782933	5783405	2083	1615
Helitron-12_AP	88.301	359	5782977	5783334	9374	9019
Helitron-12_AP	87.622	307	5783031	5783337	9374	9070
Helitron-10_AP	91.000	500	5783613	5784112	1210	724
Helitron-4_AP	98.734	79	5793771	5793849	214	136
Helitron-8_AP	89.768	518	5793777	5794294	605	88
Helitron-8_AP	89.831	472	5793817	5794286	1141	672
Helitron-8_AP	89.474	437	5793854	5794290	1138	702
Helitron-7_AP	94.357	319	5793969	5794287	1289	971
Helitron-8_AP	94.505	91	5797426	5797516	91	1
Helitron-8_AP	93.548	124	5797427	5797550	124	1
Helitron-7_AP	97.015	67	5797428	5797494	67	1
Helitron-7_AP	94.930	572	5797433	5798004	571	1
Helitron-8_AP	90.614	1140	5797465	5798604	1138	1
Helitron-7_AP	94.270	1309	5797478	5798786	1289	1

Helitron-8_AP	90.551	1143	5797496	5798638	1141	1
Helitron-7_AP	93.048	1309	5797512	5798820	1289	1
Helitron-8_AP	90.965	1140	5797533	5798672	1138	1
Helitron-8_AP	90.210	1144	5797563	5798706	1142	1
Helitron-7_AP	94.095	1287	5797580	5798850	1289	5
Helitron-8_AP	90.614	1140	5797601	5798740	1138	1
Helitron-7_AP	93.812	1309	5797614	5798920	1289	1
Helitron-8_AP	90.035	1144	5797631	5798774	1142	1
Helitron-7_AP	93.583	1309	5797648	5798954	1289	1
Helitron-8_AP	90.201	1143	5797666	5798808	1141	1
Helitron-7_AP	93.659	1309	5797682	5798988	1289	1
Helitron-8_AP	90.114	1143	5797700	5798842	1141	1
Helitron-7_AP	92.895	1309	5797716	5799022	1289	1
Helitron-8_AP	89.939	1143	5797734	5798874	1141	1
Helitron-7_AP	93.736	1309	5797750	5799056	1289	1
Helitron-8_AP	90.201	1143	5797768	5798908	1141	1
Helitron-7_AP	93.349	1308	5797784	5799089	1289	2
Helitron-8_AP	90.464	1143	5797802	5798942	1141	1
Helitron-7_AP	93.659	1309	5797818	5799124	1289	1
Helitron-8_AP	90.551	1143	5797836	5798976	1141	1
Helitron-7_AP	93.812	1309	5797852	5799158	1289	1
Helitron-8_AP	90.814	1143	5797870	5799010	1141	1
Helitron-7_AP	93.659	1309	5797886	5799192	1289	1
Helitron-8_AP	90.551	1143	5797904	5799044	1141	1
Helitron-7_AP	92.895	1309	5797920	5799226	1289	1
Helitron-8_AP	90.559	1144	5797937	5799078	1142	1
Helitron-7_AP	93.583	1309	5797954	5799260	1289	1
Helitron-8_AP	90.351	1140	5797975	5799112	1138	1
Helitron-7_AP	93.965	1309	5797988	5799294	1289	1
Helitron-8_AP	90.297	1144	5798005	5799146	1142	1
Helitron-7_AP	93.888	1309	5798022	5799328	1289	1
Helitron-8_AP	90.551	1143	5798040	5799180	1141	1
Helitron-7_AP	93.125	1309	5798056	5799362	1289	1
Helitron-8_AP	90.981	1142	5798074	5799213	1141	2
Helitron-7_AP	93.956	1307	5798090	5799396	1289	1
Helitron-8_AP	91.164	1143	5798108	5799248	1141	1
Helitron-8_AP	90.806	1142	5798145	5799282	1138	1
Helitron-7_AP	94.194	1309	5798158	5799464	1289	1
Helitron-8_AP	90.909	1144	5798175	5799316	1142	1
Helitron-8_AP	90.718	1142	5798213	5799350	1138	1
Helitron-7_AP	94.345	1291	5798226	5799498	1289	1
Helitron-8_AP	90.114	1143	5798244	5799384	1141	1
Helitron-7_AP	93.506	1309	5798260	5799566	1289	1
Helitron-8_AP	90.351	1140	5798281	5799418	1138	1
Helitron-7_AP	94.500	1309	5798294	5799600	1289	1
Helitron-8_AP	90.798	1141	5798312	5799452	1141	1
Helitron-7_AP	93.430	1309	5798328	5799634	1289	1
Helitron-8_AP	90.647	1144	5798345	5799486	1142	1

Helitron-7_AP	98.438	64	5798349	5798412	64	1
Helitron-7_AP	93.430	1309	5798362	5799668	1289	1
Helitron-8_AP	90.376	1143	5798380	5799520	1141	1
Helitron-7_AP	94.118	1309	5798396	5799702	1289	1
Helitron-8_AP	90.289	1143	5798414	5799554	1141	1
Helitron-7_AP	93.506	1309	5798430	5799736	1289	1
Helitron-8_AP	90.814	1143	5798448	5799588	1141	1
Helitron-7_AP	93.125	1309	5798464	5799770	1289	1
Helitron-8_AP	90.901	1143	5798482	5799622	1141	1
Helitron-7_AP	93.965	1309	5798498	5799804	1289	1
Helitron-8_AP	91.259	1144	5798515	5799656	1142	1
Helitron-7_AP	94.721	1307	5798532	5799838	1289	1
Helitron-8_AP	90.997	1144	5798549	5799690	1142	1
Helitron-7_AP	93.659	1309	5798566	5799872	1289	1
Helitron-8_AP	90.838	1146	5798583	5799724	1142	1
Helitron-8_AP	90.981	1142	5798621	5799758	1138	1
Helitron-7_AP	94.191	1291	5798634	5799906	1289	1
Helitron-8_AP	90.280	1142	5798655	5799792	1138	1
Helitron-7_AP	93.659	1309	5798668	5799974	1289	1
Helitron-8_AP	90.472	1144	5798685	5799826	1142	1
Helitron-7_AP	93.965	1309	5798702	5800008	1289	1
Helitron-8_AP	90.614	1140	5798723	5799860	1138	1
Helitron-7_AP	94.270	1309	5798736	5800042	1289	1
Helitron-8_AP	90.806	1142	5798757	5799894	1138	1
Helitron-8_AP	90.639	1143	5798788	5799928	1141	1
Helitron-7_AP	94.576	1309	5798804	5800110	1289	1
Helitron-8_AP	90.201	1143	5798822	5799962	1141	1
Helitron-7_AP	94.194	1309	5798838	5800144	1289	1
Helitron-8_AP	90.789	1140	5798857	5799996	1138	1
Helitron-7_AP	93.430	1309	5798870	5800178	1289	1
Helitron-8_AP	90.647	1144	5798887	5800030	1142	1
Helitron-7_AP	94.194	1309	5798904	5800212	1289	1
Helitron-8_AP	90.639	1143	5798922	5800064	1141	1
Helitron-7_AP	94.194	1309	5798938	5800246	1289	1
Helitron-8_AP	90.297	1144	5798955	5800098	1142	1
Helitron-7_AP	94.576	1309	5798972	5800280	1289	1
Helitron-8_AP	90.734	1144	5798989	5800132	1142	1
Helitron-8_AP	90.901	1143	5799024	5800166	1141	1
Helitron-7_AP	94.578	1291	5799040	5800314	1289	1
Helitron-8_AP	90.663	1146	5799057	5800200	1142	1
Helitron-7_AP	93.965	1309	5799074	5800380	1289	1
Helitron-8_AP	90.655	1145	5799090	5800234	1143	1
Helitron-7_AP	94.194	1309	5799108	5800414	1289	1
Helitron-8_AP	90.901	1143	5799126	5800268	1141	1
Helitron-7_AP	93.583	1309	5799142	5800448	1289	1
Helitron-8_AP	90.472	1144	5799159	5800302	1142	1
Helitron-7_AP	93.430	1309	5799176	5800482	1289	1
Helitron-8_AP	90.742	1145	5799194	5800336	1141	1

Helitron-7_AP	93.888	1309	5799210	5800516	1289	1
Helitron-8_AP	90.464	1143	5799228	5800368	1141	1
Helitron-7_AP	94.194	1309	5799244	5800550	1289	1
Helitron-8_AP	90.263	1140	5799265	5800402	1138	1
Helitron-7_AP	93.884	1308	5799278	5800583	1289	2
Helitron-8_AP	90.726	1143	5799296	5800436	1141	1
Helitron-8_AP	90.726	1143	5799330	5800470	1141	1
Helitron-7_AP	94.427	1310	5799346	5800652	1289	1
Helitron-8_AP	90.814	1143	5799364	5800504	1141	1
Helitron-8_AP	90.822	1144	5799397	5800538	1142	1
Helitron-7_AP	93.726	1291	5799414	5800686	1289	1
Helitron-8_AP	90.647	1144	5799431	5800572	1142	1
Helitron-7_AP	93.583	1309	5799448	5800754	1289	1
Helitron-8_AP	90.814	1143	5799466	5800606	1141	1
Helitron-7_AP	93.659	1309	5799482	5800788	1289	1
Helitron-8_AP	90.297	1144	5799499	5800640	1142	1
Helitron-7_AP	93.583	1309	5799516	5800822	1289	1
Helitron-8_AP	90.218	1145	5799532	5800674	1143	1
Helitron-7_AP	94.270	1309	5799550	5800856	1289	1
Helitron-8_AP	90.981	1142	5799568	5800707	1141	2
Helitron-7_AP	93.726	1307	5799584	5800890	1289	1
Helitron-8_AP	90.734	1144	5799601	5800742	1142	1
Helitron-8_AP	89.965	1146	5799635	5800776	1142	1
Helitron-7_AP	94.041	1309	5799652	5800958	1289	1
Helitron-8_AP	90.551	1143	5799670	5800810	1141	1
Helitron-7_AP	94.194	1309	5799686	5800992	1289	1
Helitron-8_AP	90.401	1146	5799703	5800844	1142	1
Helitron-8_AP	90.114	1143	5799738	5800878	1141	1
Helitron-7_AP	93.736	1309	5799754	5801060	1289	1
Helitron-8_AP	90.201	1143	5799772	5800912	1141	1
Helitron-7_AP	94.958	1309	5799788	5801094	1289	1
Helitron-8_AP	90.630	1142	5799805	5800946	1142	1
Helitron-7_AP	93.664	1310	5799822	5801128	1289	1
Helitron-8_AP	90.726	1143	5799840	5800980	1141	1
Helitron-7_AP	93.506	1309	5799856	5801162	1289	1
Helitron-8_AP	90.289	1143	5799874	5801014	1141	1
Helitron-7_AP	98.438	64	5799877	5799940	64	1
Helitron-7_AP	94.041	1309	5799890	5801196	1289	1
Helitron-8_AP	90.289	1143	5799908	5801048	1141	1
Helitron-7_AP	93.659	1309	5799924	5801230	1289	1
Helitron-8_AP	90.639	1143	5799942	5801082	1141	1
Helitron-7_AP	93.506	1309	5799958	5801264	1289	1
Helitron-8_AP	90.551	1143	5799976	5801116	1141	1
Helitron-7_AP	93.354	1309	5799992	5801298	1289	1
Helitron-8_AP	90.909	1144	5800009	5801150	1142	1
Helitron-7_AP	94.338	1307	5800026	5801332	1289	1
Helitron-8_AP	90.901	1143	5800044	5801184	1141	1
Helitron-7_AP	93.506	1309	5800060	5801366	1289	1

Helitron-8_AP	90.806	1142	5800081	5801218	1138	1
Helitron-7_AP	93.812	1309	5800094	5801400	1289	1
Helitron-8_AP	90.750	1146	5800111	5801252	1142	1
Helitron-7_AP	93.506	1309	5800128	5801434	1289	1
Helitron-8_AP	90.105	1142	5800149	5801286	1138	1
Helitron-7_AP	93.659	1309	5800162	5801468	1289	1
Helitron-8_AP	90.551	1143	5800180	5801320	1141	1
Helitron-7_AP	93.965	1309	5800196	5801502	1289	1
Helitron-8_AP	90.472	1144	5800213	5801354	1142	1
Helitron-7_AP	94.194	1309	5800230	5801536	1289	1
Helitron-8_AP	90.718	1142	5800251	5801388	1138	1
Helitron-8_AP	90.551	1143	5800282	5801422	1141	1
Helitron-7_AP	94.500	1309	5800298	5801604	1289	1
Helitron-8_AP	90.114	1143	5800316	5801456	1141	1
Helitron-7_AP	94.118	1309	5800332	5801638	1289	1
Helitron-8_AP	90.702	1140	5800351	5801490	1138	1
Helitron-7_AP	93.354	1309	5800364	5801672	1289	1
Helitron-8_AP	90.559	1144	5800381	5801524	1142	1
Helitron-7_AP	94.194	1309	5800398	5801706	1289	1
Helitron-8_AP	90.551	1143	5800416	5801558	1141	1
Helitron-7_AP	94.118	1309	5800432	5801740	1289	1
Helitron-8_AP	90.210	1144	5800449	5801592	1142	1
Helitron-7_AP	94.347	1309	5800466	5801774	1289	1
Helitron-8_AP	90.647	1144	5800483	5801626	1142	1
Helitron-8_AP	90.814	1143	5800518	5801660	1141	1
Helitron-7_AP	94.423	1291	5800534	5801808	1289	1
Helitron-8_AP	90.559	1144	5800553	5801694	1140	1
Helitron-7_AP	94.118	1309	5800568	5801876	1289	1
Helitron-8_AP	90.742	1145	5800584	5801728	1143	1
Helitron-7_AP	94.500	1309	5800602	5801910	1289	1
Helitron-8_AP	91.076	1143	5800620	5801762	1141	1
Helitron-7_AP	93.659	1309	5800636	5801944	1289	1
Helitron-8_AP	90.472	1144	5800653	5801796	1142	1
Helitron-7_AP	93.425	1308	5800670	5801977	1289	2
Helitron-8_AP	90.830	1145	5800688	5801830	1141	1
Helitron-7_AP	93.960	1308	5800704	5802011	1289	2
Helitron-8_AP	90.551	1143	5800722	5801864	1141	1
Helitron-7_AP	93.736	1309	5800738	5802046	1289	1
Helitron-8_AP	90.351	1140	5800759	5801898	1138	1
Helitron-7_AP	93.812	1309	5800772	5802080	1289	1
Helitron-8_AP	90.901	1143	5800790	5801932	1141	1
Helitron-8_AP	90.726	1143	5800824	5801966	1141	1
Helitron-7_AP	94.500	1291	5800840	5802114	1289	1
Helitron-8_AP	90.551	1143	5800858	5802000	1141	1
Helitron-7_AP	93.889	1260	5800874	5802117	1289	32
Helitron-8_AP	90.647	1144	5800891	5802034	1142	1
Helitron-8_AP	90.385	1144	5800925	5802068	1142	1
Helitron-8_AP	90.726	1143	5800960	5802102	1141	1

Helitron-7_AP	93.214	1120	5801010	5802113	1289	172
Helitron-8_AP	90.063	946	5801164	5802109	1141	198
Helitron-8_AP	91.045	536	5801575	5802110	1138	603
Helitron-8_AP	87.755	98	5810061	5810154	97	1
Helitron-7_AP	92.473	93	5810066	5810157	101	10
Helitron-6_AP	96.667	90	5813310	5813399	11736	11647
Helitron-8_AP	98.611	72	5815441	5815512	10878	10807
Helitron-8_AP	98.649	74	5816815	5816888	10878	10805
Helitron-8_AP	98.611	72	5818395	5818466	10878	10807
Helitron-8_AP	97.222	72	5820414	5820485	10878	10807
Helitron-8_AP	98.611	72	5822311	5822382	10878	10807
Helitron-8_AP	98.649	74	5823963	5824036	10878	10805
Helitron-8_AP	95.833	72	5825578	5825649	10878	10807
Helitron-8_AP	98.592	71	5828054	5828124	10877	10807
Helitron-7_AP	80.851	423	5829584	5830000	416	1
Helitron-8_AP	81.046	612	5829587	5830192	606	1
Helitron-8_AP	80.519	616	5829594	5830203	665	58
Helitron-8_AP	79.512	615	5829597	5830205	1138	532
Helitron-8_AP	81.204	548	5829616	5830158	543	1
Helitron-8_AP	82.012	517	5829684	5830196	779	269
Helitron-7_AP	86.382	492	5829718	5830204	1283	799
Helitron-7_AP	81.379	145	5830748	5830891	1009	868
Helitron-6_AP	94.444	90	5832120	5832209	11736	11647
Helitron-6_AP	97.778	90	5833279	5833368	11736	11647
Helitron-8_AP	97.222	72	5834528	5834599	10878	10807
Helitron-8_AP	100.000	72	5836262	5836333	10878	10807
Helitron-8_AP	98.649	74	5837461	5837534	10878	10805
Helitron-8_AP	100.000	64	5838980	5839043	10878	10815
Helitron-8_AP	100.000	72	5839609	5839680	10878	10807
Helitron-8_AP	98.649	74	5840797	5840870	10878	10805
Helitron-8_AP	98.611	72	5842265	5842336	10878	10807
Helitron-8_AP	100.000	72	5843562	5843633	10878	10807
Helitron-8_AP	100.000	64	5845111	5845174	10878	10815
Helitron-8_AP	100.000	72	5845740	5845811	10878	10807
Helitron-8_AP	100.000	72	5846929	5847000	10878	10807
Helitron-6_AP	96.667	90	5848101	5848190	11736	11647
Helitron-8_AP	100.000	72	5849384	5849455	10878	10807
Helitron-8_AP	98.611	72	5850678	5850749	10878	10807
Helitron-6_AP	96.739	92	5852361	5852452	11736	11646
Helitron-8_AP	98.611	72	5853370	5853441	10878	10807
Helitron-6_AP	94.565	92	5854723	5854813	11736	11646
Helitron-8_AP	98.611	72	5855718	5855789	10878	10807
Helitron-8_AP	100.000	72	5857061	5857132	10878	10807
Helitron-8_AP	100.000	72	5869504	5869575	10878	10807
Helitron-8_AP	100.000	72	5871637	5871708	10878	10807
Helitron-6_AP	95.604	91	5872818	5872908	11736	11646
Helitron-8_AP	98.611	72	5873807	5873878	10878	10807
Helitron-8_AP	98.611	72	5875335	5875406	10878	10807

Helitron-8_AP	100.000	72	5876704	5876775	10878	10807
Helitron-6_AP	96.667	90	5951045	5951134	11647	11736
Helitron-6_AP	96.667	90	5951874	5951963	11647	11736
Helitron-6_AP	94.444	90	5953497	5953586	11647	11736
Helitron-6_AP	92.222	90	5954957	5955046	11647	11736
Helitron-6_AP	96.667	90	5956204	5956293	11647	11736
Helitron-11_AP	100.000	68	5957502	5957569	8944	9011
Helitron-11_AP	97.143	70	5961649	5961718	8942	9011
Helitron-4_AP	97.143	70	5963003	5963072	11525	11594
Helitron-11_AP	98.529	68	5964552	5964619	8944	9011
Helitron-6_AP	96.667	90	5965985	5966074	11647	11736
Helitron-6_AP	98.889	90	5966767	5966856	11647	11736
Helitron-6_AP	98.889	90	5968261	5968350	11647	11736
Helitron-11_AP	100.000	68	5970660	5970727	8944	9011
Helitron-6_AP	96.667	90	5972158	5972247	11647	11736
Helitron-6_AP	97.802	91	5973507	5973597	11646	11736
Helitron-6_AP	97.802	91	5975020	5975110	11646	11736
Helitron-5_AP	97.602	2419	5977708	5980119	1	2389
Helitron-5_AP	98.721	7974	5980151	5988113	2375	10325
Helitron-10_AP	97.666	7626	5980759	5988374	3	7595
Helitron-12_AP	94.545	165	5980971	5981135	7243	7407
Helitron-12_AP	94.540	1685	5981422	5983100	7615	9294
Helitron-12_AP	82.388	335	5982717	5983045	9070	9399
Helitron-9_AP	84.127	315	5982732	5983042	1752	2062
Helitron-9_AP	84.706	255	5982740	5982988	1811	2062
Helitron-9_AP	85.849	318	5982786	5983099	1698	2011
Helitron-2_AP	94.948	1524	5999949	6001430	10532	12042
Helitron-7_AP	87.131	746	6000804	6001496	7874	8606
Helitron-11_AP	98.529	68	6003523	6003590	8944	9011
Helitron-11_AP	100.000	71	6004833	6004903	8941	9011
Helitron-11_AP	100.000	68	6006269	6006336	8944	9011
Helitron-4_AP	94.847	1863	6009895	6011755	1	1851
Helitron-7_AP	94.737	76	6010049	6010124	1214	1289
Helitron-8_AP	89.755	1142	6010052	6011191	1	1138
Helitron-7_AP	93.169	732	6010074	6010804	561	1289
Helitron-8_AP	89.667	1142	6010086	6011225	1	1138
Helitron-7_AP	93.354	1309	6010108	6011416	1	1289
Helitron-8_AP	89.773	1144	6010120	6011262	1	1141
Helitron-7_AP	93.506	1309	6010142	6011450	1	1289
Helitron-8_AP	89.354	1146	6010154	6011297	1	1142
Helitron-7_AP	92.972	1309	6010176	6011484	1	1289
Helitron-8_AP	89.220	1141	6010188	6011327	1	1138
Helitron-7_AP	92.982	1311	6010210	6011519	1	1290
Helitron-8_AP	90.070	1138	6010228	6011364	7	1141
Helitron-7_AP	93.354	1309	6010244	6011552	1	1289
Helitron-8_AP	90.210	1144	6010256	6011399	1	1142
Helitron-7_AP	93.048	1309	6010278	6011586	1	1289
Helitron-8_AP	90.218	1145	6010290	6011434	1	1143

Helitron-7_AP	92.972	1309	6010312	6011620	1	1289
Helitron-8_AP	90.000	1140	6010324	6011463	1	1138
Helitron-8_AP	90.297	1144	6010358	6011501	1	1142
Helitron-7_AP	93.048	1309	6010380	6011688	1	1289
Helitron-8_AP	89.773	1144	6010392	6011534	1	1141
Helitron-7_AP	93.277	1309	6010414	6011722	1	1289
Helitron-8_AP	89.939	1143	6010426	6011568	1	1141
Helitron-8_AP	89.860	1144	6010460	6011603	1	1142
Helitron-8_AP	89.833	1141	6010494	6011633	1	1138
Helitron-8_AP	89.948	1144	6010528	6011670	1	1141
Helitron-8_AP	89.833	1141	6010562	6011701	1	1138
Helitron-8_AP	89.414	1143	6010596	6011738	1	1141
Helitron-7_AP	94.231	572	6011162	6011733	1	571
Helitron-7_AP	96.422	559	6011196	6011754	1	559
Helitron-7_AP	97.713	7608	6015076	6022682	1365	8932
Helitron-4_AP	94.343	548	6015118	6015665	3607	4152
Helitron-7_AP	80.982	163	6015404	6015566	1783	1945
Helitron-4_AP	85.714	182	6015439	6015620	4197	4378
Helitron-4_AP	81.967	183	6015494	6015674	3874	4054
Helitron-4_AP	90.885	384	6021340	6021717	10168	10546
Helitron-11_AP	95.098	1122	6021527	6022643	7867	8976
Helitron-6_AP	88.579	753	6021613	6022354	10519	11235
Helitron-2_AP	90.233	645	6021617	6022253	11410	12024
Helitron-11_AP	98.529	68	6024512	6024579	8944	9011
Helitron-11_AP	100.000	68	6026165	6026232	8944	9011
Helitron-11_AP	100.000	68	6027768	6027835	8944	9011
Helitron-11_AP	98.529	68	6029993	6030060	8944	9011
Helitron-11_AP	98.529	68	6031513	6031580	8944	9011
Helitron-6_AP	97.260	73	6033010	6033082	11664	11736
Helitron-6_AP	96.703	91	6033816	6033906	11646	11736
Helitron-11_AP	98.571	70	6035463	6035532	8942	9011
Helitron-11_AP	100.000	68	6036647	6036714	8944	9011
Helitron-11_AP	98.571	70	6037972	6038041	8942	9011
Helitron-11_AP	98.529	68	6039147	6039214	8944	9011
Helitron-6_AP	96.667	90	6041506	6041595	11647	11736
Helitron-11_AP	98.529	68	6043823	6043890	8944	9011
Helitron-11_AP	97.143	70	6045338	6045407	8942	9011
Helitron-6_AP	96.703	91	6046213	6046303	11646	11736
Helitron-6_AP	95.556	90	6047433	6047522	11647	11736
Helitron-11_AP	98.529	68	6050114	6050181	8944	9011
Helitron-11_AP	100.000	68	6051410	6051477	8944	9011
Helitron-11_AP	100.000	68	6052390	6052457	8944	9011
Helitron-6_AP	96.703	91	6053613	6053703	11646	11736
Helitron-11_AP	100.000	68	6054822	6054889	8944	9011
Helitron-11_AP	97.183	71	6056057	6056127	8941	9011
Helitron-5_AP	90.323	93	6058228	6058320	1	89
Helitron-2_AP	83.361	1220	6058478	6059654	232	1415
Helitron-10_AP	92.387	2128	6059976	6062085	206	2317

Helitron-12_AP	97.831	7793	6059980	6067770	7239	14966
Helitron-12_AP	83.657	361	6061705	6062059	9019	9374
Helitron-9_AP	83.200	250	6061732	6061977	1821	2065
Helitron-9_AP	83.378	373	6061771	6062139	1698	2065
Helitron-12_AP	85.873	361	6061810	6062167	8914	9268
Helitron-5_AP	96.666	5399	6061830	6067221	4947	10325
Helitron-1_AP	81.206	282	6061915	6062192	3998	4273
Helitron-12_AP	74.354	3794	6063402	6067151	3433	7175
Helitron-1_AP	91.337	808	6067769	6068528	10318	11113
Helitron-4_AP	89.679	591	6067949	6068514	10537	11113
Helitron-6_AP	96.667	120	6068569	6068688	11617	11736
Helitron-6_AP	95.652	92	6069314	6069405	11646	11736
Helitron-6_AP	94.444	90	6070335	6070424	11647	11736
Helitron-6_AP	94.444	90	6071354	6071443	11647	11736
Helitron-6_AP	97.778	90	6072797	6072886	11647	11736
Helitron-11_AP	97.143	70	6074898	6074967	8942	9011
Helitron-11_AP	98.529	68	6076532	6076599	8944	9011
Helitron-11_AP	98.529	68	6079383	6079450	8944	9011
Helitron-11_AP	98.529	68	6081084	6081151	8944	9011
Helitron-11_AP	98.529	68	6082541	6082608	8944	9011
Helitron-11_AP	100.000	68	6083971	6084038	8944	9011
Helitron-11_AP	98.529	68	6085603	6085670	8944	9011
Helitron-11_AP	98.529	68	6087253	6087320	8944	9011
Helitron-11_AP	100.000	68	6089411	6089478	8944	9011
Helitron-11_AP	100.000	68	6091051	6091118	8944	9011
Helitron-11_AP	98.571	70	6091938	6092007	8942	9011
Helitron-8_AP	98.611	72	6190504	6190575	10878	10807
Helitron-8_AP	97.222	72	6192010	6192080	10878	10807
Helitron-8_AP	95.946	74	6193383	6193456	10878	10807
Helitron-8_AP	97.297	74	6195686	6195759	10878	10805
Helitron-8_AP	97.222	72	6198266	6198337	10878	10807
Helitron-8_AP	98.649	74	6199754	6199827	10878	10805
Helitron-8_AP	95.833	72	6201342	6201413	10876	10807
Helitron-8_AP	100.000	72	6202701	6202772	10878	10807
Helitron-6_AP	95.556	90	6205868	6205957	11736	11647
Helitron-6_AP	97.260	73	6207033	6207105	11736	11664
Helitron-6_AP	96.703	91	6208529	6208619	11736	11646
Helitron-6_AP	96.667	90	6209811	6209900	11736	11647
Helitron-11_AP	100.000	68	6592471	6592538	8944	9011
Helitron-11_AP	98.529	68	6593966	6594033	8944	9011
Helitron-11_AP	97.143	70	6595490	6595559	8942	9011
Helitron-6_AP	92.222	90	6597241	6597329	11647	11736
Helitron-6_AP	96.667	90	6723323	6723412	11736	11647
Helitron-6_AP	95.556	90	6724175	6724264	11736	11647
Helitron-6_AP	98.630	73	6726266	6726338	11736	11664
Helitron-6_AP	93.333	90	6727676	6727765	11736	11647
Helitron-6_AP	97.778	90	6729222	6729311	11736	11647
Helitron-6_AP	93.333	90	6730864	6730953	11736	11647

Helitron-8_AP	98.649	74	6731642	6731715	10878	10805
Helitron-8_AP	98.611	72	6732971	6733042	10878	10807
Helitron-8_AP	98.611	72	6734990	6735061	10878	10807
Helitron-8_AP	100.000	72	6736348	6736419	10878	10807
Helitron-8_AP	97.222	72	6738597	6738668	10878	10807
Helitron-8_AP	98.611	72	6740375	6740446	10878	10807
Helitron-8_AP	100.000	64	6741729	6741792	10878	10815
Helitron-8_AP	100.000	72	6742358	6742429	10878	10807
Helitron-8_AP	98.611	72	6744740	6744811	10878	10807
Helitron-8_AP	98.611	72	6746417	6746488	10878	10807
Helitron-8_AP	100.000	72	6747775	6747846	10878	10807
Helitron-8_AP	100.000	72	6749159	6749230	10878	10807
Helitron-8_AP	95.946	74	6750460	6750533	10878	10807
Helitron-6_AP	95.556	90	6752963	6753052	11736	11647
Helitron-1_AP	99.666	1199	6753866	6755064	11739	10541
Helitron-8_AP	90.443	722	6754367	6755058	10550	9837
Helitron-1_AP	98.256	10549	6755051	6765588	10518	1
Helitron-5_AP	98.485	10360	6756167	6766524	10325	1
Helitron-9_AP	80.000	245	6761166	6761408	1922	1683
Helitron-2_AP	81.043	211	6761185	6761393	5095	4890
Helitron-10_AP	84.277	318	6761239	6761552	2316	2003
Helitron-10_AP	84.496	258	6761293	6761544	2316	2062
Helitron-10_AP	80.973	226	6761347	6761567	2316	2093
Helitron-6_AP	93.333	90	6768652	6768741	11736	11647
Helitron-6_AP	93.333	90	6769877	6769966	11736	11647
Helitron-6_AP	93.333	90	6771161	6771250	11736	11647
Helitron-6_AP	96.667	90	6772723	6772812	11736	11647
Helitron-6_AP	93.333	90	6773962	6774051	11736	11647
Helitron-8_AP	98.630	73	6964331	6964403	10878	10807
Helitron-8_AP	98.611	72	6965991	6966062	10878	10807
Helitron-8_AP	100.000	72	6967363	6967434	10878	10807
Helitron-8_AP	100.000	72	6969201	6969272	10878	10807
Helitron-8_AP	100.000	72	6971427	6971498	10878	10807
Helitron-8_AP	100.000	72	6973754	6973825	10878	10807
Helitron-8_AP	100.000	72	6975070	6975141	10878	10807
Helitron-8_AP	100.000	64	6976470	6976533	10878	10815
Helitron-8_AP	100.000	64	6977053	6977116	10878	10815
Helitron-8_AP	100.000	72	6977727	6977798	10878	10807
Helitron-8_AP	98.649	74	6980106	6980179	10878	10805
Helitron-8_AP	100.000	72	6981187	6981258	10878	10807
Helitron-8_AP	100.000	72	6983457	6983528	10878	10807
Helitron-8_AP	100.000	64	6985403	6985466	10878	10815
Helitron-8_AP	100.000	64	6985986	6986049	10878	10815
Helitron-8_AP	100.000	72	6986661	6986732	10878	10807
Helitron-6_AP	95.556	90	6989008	6989097	11736	11647
Helitron-6_AP	96.703	91	7795835	7795925	11646	11736
Helitron-6_AP	93.671	79	7798167	7798245	11658	11736
Helitron-11_AP	100.000	68	7799752	7799819	8944	9011

Helitron-11_AP	100.000	68	7801340	7801407	8944	9011
Helitron-11_AP	100.000	68	7803691	7803758	8944	9011
Helitron-6_AP	91.304	92	7805784	7805875	11647	11736
Helitron-11_AP	100.000	68	9002422	9002489	8944	9011
Helitron-11_AP	100.000	68	9003927	9003994	8944	9011
Helitron-6_AP	98.901	91	9005967	9006057	11646	11736
Helitron-11_AP	98.529	68	9006986	9007053	8944	9011
Helitron-11_AP	100.000	68	9008353	9008420	8944	9011
Helitron-11_AP	98.529	68	9010839	9010906	8944	9011
Helitron-11_AP	98.529	68	9012775	9012842	8944	9011
Helitron-6_AP	97.260	73	9015073	9015145	11664	11736
Helitron-11_AP	97.143	70	9015631	9015700	8942	9011
Helitron-11_AP	97.101	69	9574206	9574274	8944	9011
Helitron-6_AP	96.703	91	9575030	9575120	11646	11736
Helitron-6_AP	97.802	91	10867833	10867923	11646	11736
Helitron-6_AP	94.444	90	10869318	10869407	11647	11736
Helitron-6_AP	94.444	90	10870259	10870348	11647	11736
Helitron-11_AP	98.529	68	10871895	10871962	8944	9011
Helitron-11_AP	98.529	68	10873338	10873405	8944	9011
Helitron-11_AP	97.183	71	10874963	10875033	8942	9011
Helitron-11_AP	98.529	68	10876568	10876635	8944	9011
Helitron-4_AP	95.714	70	10877871	10877938	11527	11596
Helitron-6_AP	96.703	91	10878998	10879088	11646	11736
Helitron-6_AP	95.604	91	10880144	10880234	11646	11736
Helitron-11_AP	100.000	68	10881524	10881591	8944	9011
Helitron-6_AP	96.667	90	10883030	10883119	11647	11736
Helitron-11_AP	98.529	68	10884422	10884489	8944	9011
Helitron-4_AP	98.551	69	10885792	10885860	11527	11594
Helitron-6_AP	96.703	91	11200783	11200873	11646	11736
Helitron-11_AP	98.529	68	11202793	11202860	8944	9011
Helitron-11_AP	100.000	68	11205499	11205566	8944	9011
Helitron-11_AP	100.000	68	11207172	11207239	8944	9011
Helitron-11_AP	98.571	70	11208467	11208536	8942	9011
Helitron-11_AP	100.000	68	11210672	11210739	8944	9011
Helitron-11_AP	100.000	68	11213187	11213254	8944	9011
Helitron-11_AP	98.571	70	11215003	11215072	8942	9011
Helitron-11_AP	100.000	68	11216543	11216610	8944	9011
Helitron-11_AP	98.529	68	11218229	11218296	8944	9011
Helitron-11_AP	100.000	68	11219589	11219656	8944	9011
Helitron-11_AP	97.059	68	11221294	11221361	8944	9011
Helitron-11_AP	97.059	68	11222753	11222820	8944	9011
Helitron-11_AP	97.059	68	11224161	11224228	8944	9011
Helitron-11_AP	98.529	68	11225088	11225155	8944	9011
Helitron-11_AP	98.571	70	11226629	11226698	8942	9011
Helitron-11_AP	98.529	68	11228370	11228437	8944	9011
Helitron-11_AP	98.529	68	11229851	11229918	8944	9011
Helitron-11_AP	100.000	68	11231198	11231265	8944	9011
Helitron-11_AP	98.529	68	11232524	11232591	8944	9011

Helitron-4_AP	98.529	68	11233822	11233889	11527	11594
Helitron-11_AP	100.000	68	11235357	11235424	8944	9011
Helitron-6_AP	98.864	88	11236632	11236719	11649	11736
Helitron-6_AP	96.667	90	11461292	11461381	11736	11647
Helitron-8_AP	100.000	74	11462726	11462799	10878	10805
Helitron-8_AP	98.649	74	11464218	11464291	10878	10805
Helitron-8_AP	98.649	74	11465737	11465810	10878	10805
Helitron-8_AP	100.000	72	11467355	11467426	10878	10807
Helitron-8_AP	98.611	72	11469822	11469893	10878	10807
Helitron-8_AP	98.611	72	11471306	11471377	10878	10807
Helitron-8_AP	98.611	72	11472580	11472651	10878	10807
Helitron-8_AP	98.649	74	11474098	11474171	10878	10805
Helitron-8_AP	95.890	73	11475630	11475702	10878	10807
Helitron-2_AP	93.260	1276	11476487	11477730	438	1708
Helitron-1_AP	89.100	422	11477740	11478148	1031	1438
Helitron-5_AP	97.638	7961	11478193	11486126	2375	10325
Helitron-10_AP	97.705	8455	11478806	11487233	3	8441
Helitron-12_AP	93.321	2096	11479014	11481108	7239	9294
Helitron-9_AP	80.176	227	11480725	11480946	1842	2065
Helitron-12_AP	82.143	280	11480728	11481000	9127	9400
Helitron-9_AP	83.386	319	11480740	11481054	1752	2065
Helitron-9_AP	85.849	318	11480794	11481107	1698	2011
Helitron-12_AP	74.413	3791	11482309	11486056	3435	7175
Helitron-12_AP	95.793	1236	11487237	11488466	15499	16702
Helitron-4_AP	90.579	743	11487253	11487965	10538	11270
Helitron-11_AP	100.000	68	11489757	11489824	8944	9011
Helitron-4_AP	98.529	68	11491144	11491211	11527	11594
Helitron-11_AP	100.000	70	11492381	11492450	8942	9011
Helitron-11_AP	98.571	70	11493906	11493975	8942	9011
Helitron-6_AP	93.333	90	11495605	11495694	11647	11736
Helitron-6_AP	95.556	90	11497098	11497187	11647	11736
Helitron-6_AP	93.333	90	11498646	11498735	11647	11736
Helitron-11_AP	100.000	68	11499857	11499924	8944	9011
Helitron-6_AP	97.802	91	11501527	11501617	11646	11736
Helitron-11_AP	98.529	68	11503005	11503072	8944	9011
Helitron-11_AP	100.000	68	11504472	11504539	8944	9011
Helitron-11_AP	98.529	68	11505661	11505727	8944	9011
Helitron-11_AP	100.000	68	11506954	11507021	8944	9011
Helitron-6_AP	96.667	90	11507053	11507142	11647	11736
Helitron-11_AP	100.000	68	11508519	11508586	8944	9011
Helitron-11_AP	100.000	68	11509707	11509774	8944	9011
Helitron-11_AP	100.000	68	11511002	11511069	8944	9011
Helitron-6_AP	96.667	90	11511101	11511190	11647	11736
Helitron-11_AP	100.000	68	11512566	11512633	8944	9011
Helitron-11_AP	100.000	70	11513938	11514007	8942	9011
Helitron-6_AP	94.444	90	11516229	11516318	11647	11736
Helitron-11_AP	98.571	70	11517665	11517734	8942	9011
Helitron-6_AP	93.333	90	11519308	11519397	11647	11736

Helitron-6_AP	97.802	91	11520723	11520813	11646	11736
Helitron-6_AP	97.260	73	11521566	11521638	11664	11736
Helitron-6_AP	98.889	90	11523002	11523091	11647	11736
Helitron-6_AP	96.667	90	11524232	11524321	11647	11736
Helitron-11_AP	98.529	68	11525848	11525915	8944	9011
Helitron-11_AP	98.529	68	11527496	11527563	8944	9011
Helitron-11_AP	100.000	68	11528722	11528789	8944	9011
Helitron-6_AP	95.604	91	11640162	11640252	11736	11646
Helitron-8_AP	100.000	74	11642170	11642243	10878	10805
Helitron-8_AP	98.611	72	11643685	11643756	10878	10807
Helitron-8_AP	100.000	72	11645333	11645404	10878	10807
Helitron-8_AP	98.611	72	11647272	11647343	10878	10807
Helitron-8_AP	98.611	72	11648570	11648641	10878	10807
Helitron-8_AP	100.000	72	11650360	11650431	10878	10807
Helitron-8_AP	98.611	72	11651603	11651674	10878	10807
Helitron-8_AP	97.297	74	11653268	11653341	10878	10805
Helitron-8_AP	98.649	74	11654848	11654921	10878	10805
Helitron-8_AP	100.000	72	11657247	11657318	10878	10807
Helitron-8_AP	100.000	72	11658597	11658668	10878	10807
Helitron-8_AP	98.611	72	11659840	11659911	10878	10807
Helitron-8_AP	97.297	74	11661505	11661578	10878	10805
Helitron-8_AP	98.649	74	11663083	11663156	10878	10805
Helitron-8_AP	100.000	72	11665492	11665563	10878	10807
Helitron-8_AP	100.000	74	11667081	11667154	10878	10805
Helitron-6_AP	95.556	90	11668594	11668683	11736	11647
Helitron-8_AP	98.611	72	11669776	11669847	10878	10807
Helitron-8_AP	98.611	72	11671578	11671649	10878	10807
Helitron-6_AP	98.889	90	11673116	11673205	11736	11647
Helitron-6_AP	92.308	91	11683315	11683405	11736	11647
Helitron-8_AP	98.611	72	11684487	11684558	10878	10807
Helitron-8_AP	98.611	72	11686281	11686352	10878	10807
Helitron-6_AP	98.889	90	11687461	11687550	11736	11647
Helitron-8_AP	98.611	72	12226413	12226484	10878	10807
Helitron-6_AP	98.889	90	12227885	12227974	11736	11647
Helitron-6_AP	95.556	90	12229138	12229227	11736	11647
Helitron-11_AP	98.571	70	12322718	12322787	8942	9011
Helitron-11_AP	98.529	68	12323944	12324011	8944	9011
Helitron-11_AP	100.000	68	12325604	12325671	8944	9011
Helitron-11_AP	98.529	68	12326995	12327062	8944	9011
Helitron-6_AP	95.604	91	12328124	12328214	11646	11736
Helitron-11_AP	100.000	68	12329333	12329400	8944	9011
Helitron-11_AP	98.529	68	12331260	12331327	8944	9011
Helitron-11_AP	98.529	68	12332495	12332562	8944	9011
Helitron-11_AP	97.143	70	12334031	12334100	8942	9011
Helitron-8_AP	98.611	72	13060935	13061006	10878	10807
Helitron-8_AP	97.260	73	13062691	13062762	10878	10807
Helitron-8_AP	100.000	72	13064157	13064228	10878	10807
Helitron-8_AP	95.890	73	13065629	13065700	10878	10807

Helitron-8_AP	97.222	72	13067136	13067205	10878	10807
Helitron-8_AP	97.183	71	13069317	13069386	10875	10805
Helitron-8_AP	97.222	72	13072361	13072432	10878	10807
Helitron-6_AP	95.604	91	13074097	13074186	11736	11646
Helitron-6_AP	96.703	91	13074938	13075027	11736	11646
Helitron-8_AP	98.611	72	13076301	13076372	10878	10807
Helitron-8_AP	100.000	72	13077732	13077803	10878	10807
Helitron-8_AP	98.649	74	13079229	13079302	10878	10805
Helitron-8_AP	100.000	72	13080868	13080939	10878	10807
Helitron-8_AP	100.000	72	13082061	13082132	10878	10807
Helitron-8_AP	98.611	72	13083535	13083606	10878	10807
Helitron-8_AP	100.000	64	13085045	13085108	10878	10815
Helitron-8_AP	100.000	72	13085683	13085754	10878	10807
Helitron-8_AP	98.649	74	13087992	13088065	10878	10805
Helitron-6_AP	95.556	90	13089569	13089658	11736	11647
Helitron-8_AP	95.946	74	13090751	13090824	10878	10807
Helitron-8_AP	97.297	74	13093095	13093168	10878	10805
Helitron-6_AP	95.604	91	13094626	13094716	11736	11646
Helitron-6_AP	95.294	85	13095691	13095775	11731	11647
Helitron-6_AP	95.556	90	13314188	13314277	11647	11736
Helitron-11_AP	100.000	68	13315749	13315816	8944	9011
Helitron-11_AP	100.000	68	13317221	13317288	8944	9011
Helitron-11_AP	98.529	68	13318912	13318979	8944	9011
Helitron-6_AP	97.802	91	13320713	13320803	11646	11736
Helitron-6_AP	97.778	90	13322224	13322313	11647	11736
Helitron-11_AP	98.529	68	13323359	13323426	8944	9011
Helitron-11_AP	100.000	68	13324613	13324680	8944	9011
Helitron-11_AP	100.000	68	13325804	13325871	8944	9011
Helitron-11_AP	98.529	68	13327044	13327111	8944	9011
Helitron-11_AP	97.143	70	13328586	13328655	8942	9011
Helitron-6_AP	98.889	90	13332675	13332764	11647	11736
Helitron-6_AP	97.802	91	13334169	13334259	11646	11736
Helitron-6_AP	97.260	73	13335012	13335084	11664	11736
Helitron-6_AP	98.630	73	13336425	13336497	11664	11736
Helitron-6_AP	94.444	90	13337644	13337733	11647	11736
Helitron-11_AP	100.000	68	13340087	13340154	8944	9011
Helitron-11_AP	100.000	68	13341677	13341744	8944	9011
Helitron-11_AP	97.143	70	13343257	13343326	8942	9011
Helitron-11_AP	97.059	68	13344691	13344758	8944	9011
Helitron-11_AP	100.000	68	13345904	13345971	8944	9011
Helitron-4_AP	95.515	1806	13348940	13350745	1	1802
Helitron-7_AP	94.679	733	13349077	13349809	559	1289
Helitron-8_AP	95.098	102	13349078	13349179	1040	1141
Helitron-7_AP	96.471	85	13349079	13349163	1205	1289
Helitron-8_AP	94.815	135	13349080	13349214	1008	1142
Helitron-7_AP	94.044	319	13349083	13349401	971	1289
Helitron-8_AP	91.964	336	13349084	13349419	808	1143
Helitron-8_AP	92.314	1145	13349091	13350235	1	1143

Helitron-7_AP	93.169	732	13349112	13349843	560	1289
Helitron-7_AP	98.438	64	13349113	13349176	1	64
Helitron-8_AP	92.402	1145	13349125	13350269	1	1143
Helitron-7_AP	93.803	1291	13349147	13350421	1	1289
Helitron-8_AP	92.368	1140	13349159	13350298	1	1138
Helitron-7_AP	92.743	1309	13349181	13350489	1	1289
Helitron-8_AP	92.489	1145	13349193	13350337	1	1143
Helitron-4_AP	94.905	1531	13349214	13350744	135	1665
Helitron-7_AP	92.819	1309	13349215	13350523	1	1289
Helitron-8_AP	92.308	1144	13349227	13350370	1	1142
Helitron-7_AP	92.813	1308	13349250	13350557	2	1289
Helitron-8_AP	93.450	1145	13349261	13350405	1	1143
Helitron-7_AP	92.743	1309	13349283	13350591	1	1289
Helitron-8_AP	92.576	1145	13349295	13350439	1	1143
Helitron-7_AP	92.661	1308	13349318	13350625	2	1289
Helitron-8_AP	92.544	1140	13349329	13350468	1	1138
Helitron-7_AP	92.813	1308	13349352	13350659	2	1289
Helitron-8_AP	92.751	1145	13349363	13350507	1	1143
Helitron-8_AP	92.664	1145	13349397	13350541	1	1143
Helitron-7_AP	93.643	1290	13349420	13350693	2	1289
Helitron-8_AP	92.838	1145	13349431	13350575	1	1143
Helitron-4_AP	95.338	1287	13349454	13350740	137	1423
Helitron-8_AP	93.100	1145	13349465	13350609	1	1143
Helitron-8_AP	93.094	1144	13349499	13350642	1	1142
Helitron-4_AP	95.417	1222	13349522	13350743	137	1358
Helitron-8_AP	93.275	1145	13349533	13350677	1	1143
Helitron-8_AP	98.989	10880	13349601	13360479	1	10878
Helitron-7_AP	93.520	571	13350168	13350738	2	571
Helitron-12_AP	99.986	7234	13351017	13358249	1	7234
Helitron-11_AP	99.534	9011	13351466	13360475	1	9011
Helitron-7_AP	97.222	72	13351694	13351765	1289	1360
Helitron-7_AP	86.602	515	13352534	13353046	1429	1936
Helitron-4_AP	84.580	441	13352809	13353249	3861	4301
Helitron-11_AP	91.346	104	13352822	13352925	1681	1784
Helitron-7_AP	89.252	214	13352942	13353154	1723	1936
Helitron-12_AP	73.560	4497	13354449	13358862	10599	15028
Helitron-4_AP	98.020	101	13358947	13359046	10168	10268
Helitron-4_AP	98.020	101	13359048	13359148	10067	10166
Helitron-7_AP	98.011	1106	13359361	13360459	7812	8914
Helitron-2_AP	91.589	642	13359419	13360050	11402	12024
Helitron-6_AP	89.986	739	13359421	13360151	10532	11235
Helitron-6_AP	97.802	91	13361855	13361945	11646	11736
Helitron-6_AP	96.667	90	13362977	13363066	11647	11736
Helitron-6_AP	96.667	90	13364096	13364185	11647	11736
Helitron-6_AP	95.556	90	13365638	13365727	11647	11736
Helitron-6_AP	95.506	89	13367046	13367134	11648	11736
Helitron-11_AP	95.714	70	13367937	13368006	8942	9011
Helitron-11_AP	98.529	68	13369681	13369748	8944	9011

Helitron-11_AP	100.000	60	13370321	13370380	8952	9011
Helitron-11_AP	95.588	68	13372279	13372346	8944	9011
Helitron-11_AP	98.529	68	13373859	13373926	8944	9011
Helitron-11_AP	98.529	68	13375118	13375185	8944	9011
Helitron-6_AP	96.667	90	13376595	13376684	11647	11736
Helitron-11_AP	100.000	68	13377804	13377871	8944	9011
Helitron-11_AP	98.571	70	13379204	13379273	8942	9011
Helitron-11_AP	100.000	68	13380679	13380746	8944	9011
Helitron-6_AP	97.802	91	13382205	13382295	11646	11736
Helitron-6_AP	94.444	90	13383153	13383242	11647	11736
Helitron-6_AP	95.556	90	13384478	13384567	11647	11736
Helitron-11_AP	98.529	68	13386234	13386301	8944	9011
Helitron-11_AP	97.101	69	13387875	13387943	8944	9011
Helitron-11_AP	98.529	68	13389122	13389189	8944	9011
Helitron-6_AP	97.778	90	13390047	13390136	11647	11736
Helitron-6_AP	94.444	90	13392370	13392459	11647	11736
Helitron-11_AP	100.000	68	13393143	13393210	8944	9011
Helitron-11_AP	98.529	68	13394527	13394594	8944	9011
Helitron-6_AP	95.556	90	13395950	13396039	11647	11736
Helitron-11_AP	100.000	68	13397278	13397345	8944	9011
Helitron-6_AP	96.667	90	13398501	13398590	11647	11736
Helitron-6_AP	92.222	90	13399965	13400054	11647	11736
Helitron-6_AP	95.556	90	13401096	13401185	11647	11736
Helitron-11_AP	100.000	68	13402320	13402387	8944	9011
Helitron-6_AP	97.260	73	13468252	13468324	11664	11736
Helitron-6_AP	94.444	90	13470095	13470184	11647	11736
Helitron-4_AP	97.143	70	13471725	13471794	11525	11594
Helitron-6_AP	94.444	90	13473373	13473462	11647	11736
Helitron-4_AP	97.143	70	13475004	13475073	11525	11594
Helitron-6_AP	94.444	90	13476652	13476741	11647	11736
Helitron-11_AP	98.529	68	13478099	13478166	8944	9011
Helitron-11_AP	98.529	68	13479377	13479444	8944	9011
Helitron-11_AP	98.571	70	13480944	13481013	8942	9011
Helitron-11_AP	100.000	68	13482138	13482205	8944	9011
Helitron-11_AP	100.000	68	13483392	13483459	8944	9011
Helitron-11_AP	100.000	68	13484694	13484761	8944	9011
Helitron-11_AP	98.529	68	13486004	13486071	8944	9011
Helitron-11_AP	98.529	68	13487219	13487286	8944	9011
Helitron-11_AP	98.529	68	13488434	13488501	8944	9011
Helitron-11_AP	98.529	68	13489538	13489605	8944	9011
Helitron-11_AP	98.529	68	13491862	13491929	8944	9011
Helitron-11_AP	98.529	68	13493254	13493321	8944	9011
Helitron-6_AP	95.556	90	13494312	13494401	11647	11736
Helitron-11_AP	100.000	68	13495911	13495978	8944	9011
Helitron-11_AP	100.000	68	13497105	13497172	8944	9011
Helitron-11_AP	100.000	68	13499474	13499541	8944	9011
Helitron-11_AP	98.529	68	13501677	13501744	8944	9011
Helitron-11_AP	100.000	68	13502866	13502933	8944	9011

Helitron-6_AP	96.667	90	13504033	13504122	11647	11736
Helitron-6_AP	96.703	91	13505475	13505565	11646	11736
Helitron-4_AP	92.324	1446	13507594	13509037	3	1438
Helitron-7_AP	93.042	733	13507735	13508466	559	1289
Helitron-8_AP	94.175	103	13507736	13507838	1040	1142
Helitron-7_AP	91.765	85	13507737	13507821	1205	1289
Helitron-8_AP	95.420	131	13507738	13507868	1008	1138
Helitron-8_AP	89.759	332	13507745	13508075	811	1142
Helitron-8_AP	89.640	1139	13507750	13508886	2	1138
Helitron-7_AP	93.716	732	13507770	13508500	560	1289
Helitron-8_AP	90.167	1139	13507784	13508920	2	1138
Helitron-8_AP	89.903	1139	13507818	13508954	2	1138
Helitron-8_AP	89.939	1143	13507852	13508992	2	1142
Helitron-8_AP	89.151	1143	13507886	13509026	2	1142
Helitron-7_AP	91.059	973	13508076	13509031	1	973
Helitron-8_AP	89.415	803	13508224	13509025	1	801
Helitron-8_AP	88.227	671	13508360	13509029	1	669
Helitron-7_AP	91.532	555	13508450	13509003	1	555
Helitron-9_AP	87.829	1824	13514553	13516353	200	1984
Helitron-9_AP	80.328	244	13516049	13516291	1842	2083
Helitron-12_AP	80.423	189	13516052	13516238	9235	9419
Helitron-9_AP	86.486	222	13516106	13516327	1845	2065
Helitron-12_AP	97.800	2364	13518172	13520533	12054	14407
Helitron-6_AP	92.222	90	13556277	13556366	11736	11647
Helitron-6_AP	97.802	91	13557250	13557340	11736	11646
Helitron-6_AP	96.703	91	13558657	13558747	11736	11646
Helitron-6_AP	94.444	90	13559681	13559770	11736	11647
Helitron-6_AP	96.703	91	13561270	13561360	11736	11646
Helitron-6_AP	94.444	90	13562294	13562383	11736	11647
Helitron-6_AP	94.444	90	13563749	13563838	11736	11647
Helitron-6_AP	94.444	90	13565141	13565230	11736	11647
Helitron-6_AP	96.703	91	13566534	13566624	11736	11646
Helitron-6_AP	95.556	90	13567465	13567554	11736	11647
Helitron-8_AP	98.611	72	13568444	13568515	10878	10807
Helitron-8_AP	97.222	72	13569825	13569896	10878	10807
Helitron-6_AP	94.444	90	13571370	13571459	11736	11647
Helitron-8_AP	100.000	72	13572591	13572662	10878	10807
Helitron-6_AP	93.333	90	13573975	13574064	11736	11647
Helitron-6_AP	96.667	90	13575436	13575525	11736	11647
Helitron-6_AP	95.556	90	13576721	13576810	11736	11647
Helitron-8_AP	98.611	72	13577698	13577769	10878	10807
Helitron-8_AP	100.000	72	13579458	13579529	10878	10807
Helitron-6_AP	94.505	91	13580649	13580737	11736	11646
Helitron-8_AP	97.260	73	13582040	13582111	10878	10807
Helitron-8_AP	98.611	72	13583238	13583309	10877	10807
Helitron-8_AP	98.611	72	13584487	13584558	10878	10807
Helitron-8_AP	98.611	72	13587971	13588042	10878	10807
Helitron-6_AP	96.703	91	13589404	13589494	11736	11646

Helitron-8_AP	98.649	74	13590801	13590874	10878	10805
Helitron-8_AP	95.833	72	13592403	13592472	10878	10807
Helitron-6_AP	96.703	91	13594176	13594266	11736	11646
Helitron-6_AP	94.444	90	13595043	13595132	11736	11647
Helitron-6_AP	95.604	91	13597180	13597269	11736	11646
Helitron-6_AP	94.444	90	13598047	13598136	11736	11647
Helitron-6_AP	96.703	91	13599847	13599937	11736	11646
Helitron-6_AP	94.444	90	13600713	13600802	11736	11647
Helitron-6_AP	96.703	91	13602858	13602948	11736	11646
Helitron-6_AP	94.444	90	13603726	13603815	11736	11647
Helitron-6_AP	96.703	91	13605526	13605616	11736	11646
Helitron-6_AP	94.444	90	13606394	13606483	11736	11647
Helitron-6_AP	96.703	91	13608323	13608413	11736	11646
Helitron-6_AP	94.444	90	13609191	13609280	11736	11647
Helitron-6_AP	96.703	91	13611336	13611426	11736	11646
Helitron-11_AP	98.507	67	13658532	13658598	8945	9011
Helitron-11_AP	98.529	68	13662371	13662438	8944	9011
Helitron-11_AP	97.183	71	13663894	13663964	8942	9011
Helitron-11_AP	97.143	70	13665182	13665251	8942	9011
Helitron-11_AP	98.529	68	13666534	13666601	8944	9011
Helitron-6_AP	95.556	90	13667606	13667695	11647	11736
Helitron-6_AP	93.333	90	13668799	13668888	11647	11736
Helitron-11_AP	100.000	68	13670286	13670353	8944	9011
Helitron-4_AP	98.529	68	13671795	13671862	11527	11594
Helitron-11_AP	98.529	68	13673594	13673661	8944	9011
Helitron-6_AP	95.604	91	13674840	13674930	11646	11736
Helitron-11_AP	100.000	68	13676049	13676116	8944	9011
Helitron-6_AP	96.667	90	13677586	13677675	11646	11735
Helitron-6_AP	94.444	90	13870108	13870197	11647	11736
Helitron-11_AP	98.571	70	13871712	13871781	8942	9011
Helitron-11_AP	100.000	68	13872995	13873062	8944	9011
Helitron-4_AP	98.529	68	13874429	13874496	11527	11594
Helitron-4_AP	98.529	68	13875795	13875862	11527	11594
Helitron-11_AP	100.000	68	13877226	13877293	8944	9011
Helitron-11_AP	100.000	68	13878799	13878866	8944	9011
Helitron-11_AP	98.529	68	13880660	13880727	8944	9011
Helitron-11_AP	98.529	68	13882018	13882085	8944	9011
Helitron-11_AP	100.000	68	13883217	13883284	8944	9011
Helitron-11_AP	100.000	68	13884708	13884775	8944	9011
Helitron-11_AP	100.000	68	13885900	13885967	8944	9011
Helitron-11_AP	100.000	68	13887392	13887459	8944	9011
Helitron-11_AP	100.000	68	13888585	13888652	8944	9011
Helitron-11_AP	97.059	68	13890004	13890070	8944	9011
Helitron-11_AP	98.529	68	13891505	13891572	8944	9011
Helitron-6_AP	98.630	73	13892914	13892986	11664	11736
Helitron-6_AP	94.565	92	13893843	13893933	11646	11736
Helitron-8_AP	97.260	73	13894357	13894429	10878	10807
Helitron-6_AP	94.505	91	13896694	13896784	11736	11646

Helitron-6_AP	96.703	91	13897799	13897889	11736	11646
Helitron-6_AP	93.258	89	13899191	13899278	11736	11649
Helitron-6_AP	94.444	90	13900583	13900672	11736	11647
Helitron-8_AP	100.000	72	13901926	13901997	10878	10807
Helitron-8_AP	97.222	72	13903599	13903670	10878	10807
Helitron-8_AP	95.833	72	13994537	13994608	10878	10807
Helitron-6_AP	95.506	89	13995413	13995501	11736	11648
Helitron-8_AP	98.649	74	13996799	13996872	10878	10805
Helitron-8_AP	100.000	72	13998332	13998403	10878	10807
Helitron-8_AP	100.000	72	13999830	13999901	10878	10807
Helitron-8_AP	98.611	72	14001935	14002006	10878	10807
Helitron-6_AP	94.937	79	14003574	14003652	11736	11658
Helitron-6_AP	97.802	91	14004585	14004675	11736	11646
Helitron-8_AP	98.611	72	14005992	14006063	10878	10807
Helitron-8_AP	98.611	72	14007787	14007858	10878	10807
Helitron-6_AP	97.802	91	14009109	14009199	11736	11646
Helitron-8_AP	98.611	72	14010522	14010593	10878	10807
Helitron-8_AP	98.611	72	14012307	14012378	10878	10807
Helitron-4_AP	97.754	7658	14013488	14021121	11594	3940
Helitron-7_AP	98.011	1106	14013504	14014602	8914	7812
Helitron-12_AP	87.097	713	14013812	14014512	16207	15545
Helitron-2_AP	91.745	642	14013913	14014544	12024	11402
Helitron-7_AP	91.406	384	14014536	14014914	7974	7598
Helitron-4_AP	96.040	101	14014918	14015018	10268	10168
Helitron-12_AP	73.995	4080	14015498	14019506	14625	10599
Helitron-12_AP	98.895	5429	14015709	14021133	7234	1806
Helitron-11_AP	94.231	104	14020706	14020809	1460	1357
Helitron-7_AP	87.892	223	14020737	14020959	1945	1723
Helitron-11_AP	93.925	428	14020760	14021187	1784	1357
Helitron-4_AP	90.210	429	14020801	14021229	4368	3940
Helitron-11_AP	93.224	428	14020814	14021241	1784	1357
Helitron-7_AP	85.841	226	14020855	14021079	1936	1711
Helitron-11_AP	91.121	428	14020868	14021295	1784	1357
Helitron-4_AP	91.837	441	14020909	14021349	4368	3928
Helitron-4_AP	87.442	430	14020963	14021391	4369	3940
Helitron-11_AP	90.654	428	14020976	14021403	1784	1357
Helitron-11_AP	94.159	428	14021030	14021457	1784	1357
Helitron-4_AP	90.443	429	14021071	14021499	4368	3940
Helitron-11_AP	93.458	428	14021084	14021511	1784	1357
Helitron-11_AP	91.355	428	14021138	14021565	1784	1357
Helitron-4_AP	92.711	439	14021169	14021607	4378	3940
Helitron-11_AP	94.393	428	14021192	14021619	1784	1357
Helitron-4_AP	87.907	430	14021233	14021661	4369	3940
Helitron-11_AP	89.486	428	14021246	14021673	1784	1357
Helitron-11_AP	97.646	1784	14021300	14023083	1784	1
Helitron-4_AP	88.630	387	14021341	14021727	4368	3982
Helitron-7_AP	93.421	76	14022780	14022855	1364	1289
Helitron-8_AP	97.600	125	14023804	14023928	125	1

Helitron-8_AP	94.444	90	14023805	14023894	90	1
Helitron-7_AP	95.522	134	14023806	14023939	135	2
Helitron-4_AP	92.929	99	14023809	14023907	233	135
Helitron-7_AP	94.046	571	14023811	14024381	571	2
Helitron-4_AP	96.365	1733	14023839	14025571	1869	137
Helitron-7_AP	94.041	1309	14023856	14025164	1289	1
Helitron-8_AP	93.275	1145	14023872	14025016	1143	1
Helitron-7_AP	94.109	1307	14023890	14025196	1289	3
Helitron-8_AP	93.182	1144	14023907	14025050	1142	1
Helitron-7_AP	93.888	1309	14023924	14025232	1289	1
Helitron-8_AP	92.751	1145	14023940	14025084	1143	1
Helitron-7_AP	94.113	1308	14023958	14025265	1289	2
Helitron-8_AP	93.100	1145	14023974	14025118	1143	1
Helitron-7_AP	93.884	1308	14023992	14025299	1289	2
Helitron-8_AP	92.913	1143	14024009	14025151	1142	2
Helitron-7_AP	93.583	1309	14024026	14025334	1289	1
Helitron-8_AP	93.275	1145	14024042	14025186	1143	1
Helitron-7_AP	94.037	1308	14024060	14025367	1289	2
Helitron-8_AP	92.570	1144	14024077	14025220	1142	1
Helitron-7_AP	94.270	1309	14024094	14025402	1289	1
Helitron-8_AP	93.269	1144	14024111	14025254	1142	1
Helitron-7_AP	93.731	1308	14024128	14025435	1289	2
Helitron-8_AP	93.182	1144	14024145	14025288	1142	1
Helitron-8_AP	93.182	1144	14024179	14025322	1142	1
Helitron-7_AP	94.186	1290	14024196	14025469	1289	2
Helitron-8_AP	93.712	1145	14024212	14025356	1143	1
Helitron-7_AP	94.347	1309	14024230	14025538	1289	1
Helitron-8_AP	93.100	1145	14024246	14025390	1143	1
Helitron-8_AP	94.061	1145	14024280	14025424	1143	1
Helitron-7_AP	93.807	1308	14024298	14025605	1289	2
Helitron-8_AP	93.182	1144	14024315	14025458	1142	1
Helitron-7_AP	93.960	1308	14024332	14025639	1289	2
Helitron-8_AP	93.100	1145	14024348	14025492	1143	1
Helitron-7_AP	94.118	1309	14024366	14025674	1289	1
Helitron-8_AP	93.275	1145	14024382	14025526	1143	1
Helitron-7_AP	93.583	1309	14024400	14025708	1289	1
Helitron-8_AP	93.007	1144	14024417	14025560	1142	1
Helitron-7_AP	93.659	1309	14024434	14025741	1289	2
Helitron-8_AP	92.926	1145	14024450	14025594	1143	1
Helitron-7_AP	94.041	1309	14024468	14025776	1289	1
Helitron-8_AP	93.357	1144	14024485	14025628	1142	1
Helitron-7_AP	94.495	1308	14024502	14025809	1289	2
Helitron-8_AP	93.007	1144	14024519	14025662	1142	1
Helitron-7_AP	93.731	1308	14024536	14025843	1289	2
Helitron-8_AP	93.444	1144	14024553	14025696	1142	1
Helitron-7_AP	93.583	1309	14024570	14025878	1289	1
Helitron-8_AP	93.158	1140	14024591	14025730	1138	1
Helitron-7_AP	94.041	1309	14024604	14025912	1289	1

Helitron-8_AP	93.596	1140	14024625	14025764	1138	1
Helitron-7_AP	93.807	1308	14024638	14025945	1289	2
Helitron-8_AP	93.531	1144	14024655	14025798	1142	1
Helitron-7_AP	93.349	1308	14024672	14025979	1289	2
Helitron-8_AP	93.357	1144	14024689	14025832	1142	1
Helitron-8_AP	93.421	1140	14024727	14025866	1138	1
Helitron-7_AP	94.341	1290	14024740	14026013	1289	2
Helitron-8_AP	93.182	1144	14024757	14025900	1142	1
Helitron-7_AP	93.812	1309	14024774	14026082	1289	1
Helitron-8_AP	93.275	1145	14024790	14025934	1143	1
Helitron-7_AP	93.731	1308	14024808	14026115	1289	2
Helitron-8_AP	93.531	1144	14024825	14025968	1142	1
Helitron-7_AP	93.349	1308	14024842	14026149	1289	2
Helitron-8_AP	93.619	1144	14024859	14026002	1142	1
Helitron-7_AP	93.654	1308	14024876	14026183	1289	2
Helitron-8_AP	92.745	1144	14024893	14026036	1142	1
Helitron-8_AP	98.750	80	14024903	14024982	80	1
Helitron-7_AP	94.270	1309	14024910	14026218	1289	1
Helitron-8_AP	93.362	1145	14024926	14026070	1143	1
Helitron-7_AP	93.277	1309	14024944	14026252	1289	1
Helitron-8_AP	93.794	1144	14024961	14026104	1142	1
Helitron-7_AP	93.272	1308	14024978	14026285	1289	2
Helitron-8_AP	93.100	1145	14024994	14026138	1143	1
Helitron-7_AP	93.272	1308	14025012	14026318	1289	2
Helitron-8_AP	93.362	1145	14025028	14026172	1143	1
Helitron-7_AP	93.965	1309	14025046	14026353	1289	1
Helitron-8_AP	93.362	1145	14025062	14026206	1143	1
Helitron-7_AP	93.349	1308	14025080	14026386	1289	2
Helitron-8_AP	93.100	1145	14025096	14026240	1143	1
Helitron-7_AP	93.502	1308	14025114	14026420	1289	2
Helitron-8_AP	93.450	1145	14025130	14026274	1143	1
Helitron-7_AP	93.654	1308	14025148	14026454	1289	2
Helitron-8_AP	93.357	1144	14025165	14026307	1142	1
Helitron-7_AP	93.654	1308	14025182	14026488	1289	2
Helitron-8_AP	93.717	1146	14025197	14026341	1144	1
Helitron-8_AP	93.619	1144	14025233	14026375	1142	1
Helitron-7_AP	93.493	1291	14025250	14026523	1289	1
Helitron-8_AP	92.838	1145	14025266	14026409	1143	1
Helitron-7_AP	94.264	1290	14025284	14026556	1289	2
Helitron-8_AP	93.362	1145	14025300	14026443	1143	1
Helitron-7_AP	93.960	1308	14025318	14026624	1289	2
Helitron-8_AP	93.182	1144	14025335	14026477	1142	1
Helitron-7_AP	93.425	1308	14025352	14026658	1289	2
Helitron-8_AP	93.450	1145	14025368	14026511	1143	1
Helitron-8_AP	93.094	1144	14025403	14026545	1142	1
Helitron-7_AP	93.502	1308	14025420	14026726	1289	2
Helitron-8_AP	93.100	1145	14025436	14026579	1143	1
Helitron-7_AP	93.960	1308	14025454	14026760	1289	2

Helitron-8_AP	93.013	1145	14025470	14026613	1143	1
Helitron-7_AP	93.277	1309	14025488	14026795	1289	1
Helitron-8_AP	93.188	1145	14025504	14026647	1143	1
Helitron-7_AP	92.972	1309	14025522	14026829	1289	1
Helitron-8_AP	93.088	1143	14025540	14026681	1141	1
Helitron-7_AP	93.196	1308	14025556	14026863	1289	1
Helitron-8_AP	93.188	1145	14025572	14026715	1143	1
Helitron-7_AP	93.425	1308	14025590	14026896	1289	2
Helitron-8_AP	92.926	1145	14025606	14026749	1143	1
Helitron-7_AP	93.425	1308	14025624	14026930	1289	2
Helitron-8_AP	93.275	1145	14025640	14026783	1143	1
Helitron-7_AP	93.349	1308	14025658	14026964	1289	2
Helitron-8_AP	93.444	1144	14025675	14026817	1142	1
Helitron-7_AP	92.890	1308	14025692	14026998	1289	2
Helitron-8_AP	92.657	1144	14025709	14026851	1142	1
Helitron-7_AP	92.972	1309	14025726	14027033	1289	1
Helitron-8_AP	92.838	1145	14025742	14026885	1143	1
Helitron-7_AP	93.048	1309	14025760	14027067	1289	1
Helitron-8_AP	92.832	1144	14025777	14026919	1142	1
Helitron-7_AP	93.277	1309	14025794	14027101	1289	1
Helitron-8_AP	93.013	1145	14025810	14026953	1143	1
Helitron-7_AP	93.583	1309	14025828	14027135	1289	1
Helitron-8_AP	92.664	1145	14025844	14026987	1143	1
Helitron-7_AP	93.807	1308	14025862	14027168	1289	2
Helitron-8_AP	92.832	1144	14025879	14027021	1142	1
Helitron-7_AP	93.048	1309	14025896	14027203	1289	1
Helitron-8_AP	92.832	1144	14025913	14027055	1142	1
Helitron-7_AP	93.201	1309	14025930	14027237	1289	1
Helitron-8_AP	93.013	1145	14025946	14027089	1143	1
Helitron-7_AP	92.895	1309	14025964	14027271	1289	1
Helitron-8_AP	93.275	1145	14025980	14027123	1143	1
Helitron-7_AP	93.736	1309	14025998	14027305	1289	1
Helitron-8_AP	92.402	1145	14026014	14027157	1143	1
Helitron-8_AP	92.140	1145	14026048	14027191	1143	1
Helitron-8_AP	93.357	1144	14026083	14027225	1142	1
Helitron-8_AP	92.926	1145	14026116	14027259	1143	1
Helitron-7_AP	93.445	1190	14026134	14027306	1289	102
Helitron-8_AP	92.664	1145	14026150	14027293	1143	1
Helitron-7_AP	93.750	1120	14026202	14027304	1289	172
Helitron-8_AP	92.186	947	14026354	14027300	1142	198
Helitron-7_AP	94.672	732	14026541	14027272	1289	560
Helitron-7_AP	95.362	733	14026575	14027307	1289	559
Helitron-8_AP	92.237	541	14026761	14027301	1143	603
Helitron-8_AP	98.485	66	14030757	14030822	1127	1192
Helitron-8_AP	94.381	1317	14030815	14032131	1315	1
Helitron-8_AP	97.600	125	14030987	14031111	125	1
Helitron-8_AP	94.444	90	14030988	14031077	90	1
Helitron-7_AP	95.522	134	14030989	14031122	135	2

Helitron-4_AP	92.929	99	14030992	14031090	233	135
Helitron-7_AP	93.520	571	14030994	14031564	571	2
Helitron-7_AP	94.041	1309	14031005	14032313	1289	1
Helitron-4_AP	94.294	1735	14031022	14032756	1869	135
Helitron-7_AP	93.731	1308	14031039	14032346	1289	2
Helitron-8_AP	93.712	1145	14031055	14032199	1143	1
Helitron-7_AP	93.277	1309	14031073	14032381	1289	1
Helitron-8_AP	92.657	1144	14031090	14032233	1142	1
Helitron-7_AP	93.583	1309	14031107	14032415	1289	1
Helitron-8_AP	92.576	1145	14031123	14032267	1143	1
Helitron-7_AP	94.194	1309	14031141	14032449	1289	1
Helitron-8_AP	93.362	1145	14031157	14032301	1143	1
Helitron-7_AP	93.812	1309	14031175	14032483	1289	1
Helitron-8_AP	92.570	1144	14031192	14032335	1142	1
Helitron-7_AP	93.888	1309	14031209	14032517	1289	1
Helitron-8_AP	92.052	1145	14031225	14032369	1143	1
Helitron-7_AP	94.495	1308	14031243	14032550	1289	2
Helitron-8_AP	92.920	1144	14031260	14032403	1142	1
Helitron-7_AP	94.118	1309	14031277	14032585	1289	1
Helitron-8_AP	92.664	1145	14031293	14032437	1143	1
Helitron-8_AP	92.140	1145	14031327	14032471	1143	1
Helitron-7_AP	93.888	1309	14031345	14032653	1289	1
Helitron-8_AP	92.308	1144	14031362	14032505	1142	1
Helitron-7_AP	94.266	1308	14031379	14032686	1289	2
Helitron-8_AP	92.483	1144	14031396	14032539	1142	1
Helitron-7_AP	94.194	1309	14031413	14032721	1289	1
Helitron-8_AP	92.052	1145	14031429	14032573	1143	1
Helitron-7_AP	93.888	1309	14031447	14032755	1289	1
Helitron-8_AP	92.657	1144	14031464	14032607	1142	1
Helitron-7_AP	94.347	1309	14031481	14032789	1289	1
Helitron-8_AP	92.576	1145	14031497	14032641	1143	1
Helitron-7_AP	93.506	1309	14031515	14032823	1289	1
Helitron-8_AP	92.402	1145	14031531	14032675	1143	1
Helitron-7_AP	93.965	1309	14031549	14032857	1289	1
Helitron-8_AP	92.227	1145	14031565	14032709	1143	1
Helitron-7_AP	94.041	1309	14031583	14032891	1289	1
Helitron-8_AP	92.395	1144	14031600	14032743	1142	1
Helitron-7_AP	94.652	1309	14031617	14032925	1289	1
Helitron-8_AP	92.227	1145	14031633	14032777	1143	1
Helitron-8_AP	92.314	1145	14031667	14032811	1143	1
Helitron-8_AP	92.052	1145	14031701	14032845	1143	1
Helitron-8_AP	92.052	1145	14031735	14032879	1143	1
Helitron-7_AP	93.613	1190	14031753	14032926	1289	102
Helitron-8_AP	92.570	1144	14031770	14032913	1142	1
Helitron-7_AP	94.286	1120	14031821	14032924	1289	172
Helitron-8_AP	91.350	948	14031973	14032920	1143	198
Helitron-7_AP	95.628	732	14032161	14032892	1289	560
Helitron-7_AP	95.089	733	14032195	14032927	1289	559

Helitron-8_AP	91.852	540	14032382	14032921	1142	603
Helitron-8_AP	98.485	66	14036377	14036442	1127	1192
Helitron-8_AP	94.761	1317	14036435	14037751	1315	1
Helitron-8_AP	97.600	125	14036607	14036731	125	1
Helitron-8_AP	94.444	90	14036608	14036697	90	1
Helitron-7_AP	95.522	134	14036609	14036742	135	2
Helitron-4_AP	92.929	99	14036612	14036710	233	135
Helitron-7_AP	93.520	571	14036614	14037184	571	2
Helitron-7_AP	92.737	1308	14036625	14037932	1289	2
Helitron-4_AP	94.864	1733	14036642	14038374	1869	137
Helitron-7_AP	93.196	1308	14036659	14037966	1289	2
Helitron-8_AP	93.013	1145	14036675	14037819	1143	1
Helitron-7_AP	92.895	1309	14036693	14038001	1289	1
Helitron-8_AP	93.794	1144	14036710	14037853	1142	1
Helitron-8_AP	93.188	1145	14036743	14037887	1143	1
Helitron-7_AP	93.178	1290	14036761	14038034	1289	2
Helitron-8_AP	92.751	1145	14036777	14037921	1143	1
Helitron-7_AP	92.895	1309	14036795	14038103	1289	1
Helitron-8_AP	92.657	1144	14036812	14037955	1142	1
Helitron-7_AP	93.201	1309	14036829	14038137	1289	1
Helitron-8_AP	93.013	1145	14036845	14037989	1143	1
Helitron-7_AP	92.508	1308	14036863	14038170	1289	2
Helitron-8_AP	93.007	1144	14036880	14038023	1142	1
Helitron-7_AP	93.430	1309	14036897	14038205	1289	1
Helitron-8_AP	92.227	1145	14036913	14038057	1143	1
Helitron-7_AP	93.119	1308	14036931	14038238	1289	2
Helitron-8_AP	93.094	1144	14036948	14038091	1142	1
Helitron-7_AP	92.966	1308	14036965	14038272	1289	2
Helitron-8_AP	92.489	1145	14036981	14038125	1143	1
Helitron-8_AP	92.308	1144	14037016	14038159	1142	1
Helitron-7_AP	92.966	1308	14037033	14038340	1289	2
Helitron-8_AP	92.576	1145	14037049	14038193	1143	1
Helitron-8_AP	92.314	1145	14037083	14038227	1143	1
Helitron-7_AP	93.272	1308	14037101	14038408	1289	2
Helitron-8_AP	92.314	1145	14037117	14038261	1143	1
Helitron-7_AP	92.972	1309	14037135	14038443	1289	1
Helitron-8_AP	92.308	1144	14037152	14038295	1142	1
Helitron-7_AP	93.349	1308	14037169	14038476	1289	2
Helitron-8_AP	92.402	1145	14037185	14038329	1143	1
Helitron-7_AP	92.890	1308	14037203	14038510	1289	2
Helitron-8_AP	92.402	1145	14037219	14038363	1143	1
Helitron-7_AP	93.272	1308	14037237	14038544	1289	2
Helitron-8_AP	92.052	1145	14037253	14038397	1143	1
Helitron-7_AP	93.277	1309	14037271	14038579	1289	1
Helitron-8_AP	92.489	1145	14037287	14038431	1143	1
Helitron-8_AP	92.483	1144	14037322	14038465	1142	1
Helitron-7_AP	93.256	1290	14037339	14038612	1289	2
Helitron-8_AP	92.664	1145	14037355	14038499	1143	1

Helitron-7_AP	92.966	1308	14037373	14038680	1289	2
Helitron-8_AP	92.664	1145	14037389	14038533	1143	1
Helitron-7_AP	92.437	1309	14037407	14038715	1289	1
Helitron-8_AP	92.395	1144	14037424	14038567	1142	1
Helitron-7_AP	92.737	1308	14037441	14038748	1289	2
Helitron-8_AP	92.838	1145	14037457	14038601	1143	1
Helitron-7_AP	93.048	1309	14037475	14038783	1289	1
Helitron-8_AP	92.576	1145	14037491	14038635	1143	1
Helitron-7_AP	92.972	1309	14037509	14038817	1289	1
Helitron-8_AP	92.751	1145	14037525	14038669	1143	1
Helitron-8_AP	92.133	1144	14037560	14038703	1142	1
Helitron-7_AP	93.416	1291	14037577	14038851	1289	1
Helitron-8_AP	93.013	1145	14037593	14038737	1143	1
Helitron-7_AP	92.895	1309	14037611	14038919	1289	1
Helitron-8_AP	92.402	1145	14037627	14038771	1143	1
Helitron-7_AP	92.972	1309	14037645	14038953	1289	1
Helitron-8_AP	92.314	1145	14037661	14038805	1143	1
Helitron-7_AP	93.583	1309	14037679	14038987	1289	1
Helitron-8_AP	92.140	1145	14037695	14038839	1143	1
Helitron-8_AP	98.889	90	14037696	14037785	90	1
Helitron-7_AP	93.201	1309	14037713	14039021	1289	1
Helitron-8_AP	92.576	1145	14037729	14038873	1143	1
Helitron-7_AP	92.666	1309	14037747	14039055	1289	1
Helitron-8_AP	92.395	1144	14037764	14038907	1142	1
Helitron-7_AP	93.506	1309	14037781	14039089	1289	1
Helitron-8_AP	91.790	1145	14037797	14038941	1143	1
Helitron-7_AP	94.041	1309	14037815	14039123	1289	1
Helitron-8_AP	91.790	1145	14037831	14038975	1143	1
Helitron-7_AP	93.812	1309	14037849	14039157	1289	1
Helitron-8_AP	92.751	1145	14037865	14039009	1143	1
Helitron-8_AP	92.281	1140	14037904	14039043	1138	1
Helitron-7_AP	94.191	1291	14037917	14039191	1289	1
Helitron-8_AP	91.790	1145	14037933	14039077	1143	1
Helitron-7_AP	94.118	1309	14037951	14039259	1289	1
Helitron-8_AP	91.965	1145	14037967	14039111	1143	1
Helitron-7_AP	94.347	1309	14037985	14039293	1289	1
Helitron-8_AP	92.570	1144	14038002	14039145	1142	1
Helitron-7_AP	93.812	1309	14038019	14039327	1289	1
Helitron-8_AP	92.052	1145	14038035	14039179	1143	1
Helitron-8_AP	92.045	1144	14038070	14039213	1142	1
Helitron-7_AP	94.733	1291	14038087	14039361	1289	1
Helitron-8_AP	92.920	1144	14038104	14039247	1142	1
Helitron-8_AP	92.133	1144	14038138	14039281	1142	1
Helitron-8_AP	92.140	1145	14038171	14039315	1143	1
Helitron-7_AP	93.950	1190	14038189	14039362	1289	102
Helitron-8_AP	92.476	1143	14038207	14039349	1141	1
Helitron-7_AP	93.929	1120	14038257	14039360	1289	172
Helitron-8_AP	91.878	948	14038409	14039356	1143	198

Helitron-7_AP	95.219	732	14038597	14039328	1289	560
Helitron-7_AP	95.907	733	14038631	14039363	1289	559
Helitron-8_AP	91.651	539	14038819	14039357	1141	603
Helitron-7_AP	98.438	64	14038822	14038885	64	1
Helitron-8_AP	98.485	66	14042809	14042874	1127	1192
Helitron-8_AP	94.305	1317	14042867	14044183	1315	1
Helitron-8_AP	97.600	125	14043039	14043163	125	1
Helitron-8_AP	94.444	90	14043040	14043129	90	1
Helitron-7_AP	95.522	134	14043041	14043174	135	2
Helitron-4_AP	92.929	99	14043044	14043142	233	135
Helitron-7_AP	93.695	571	14043046	14043616	571	2
Helitron-7_AP	93.884	1308	14043057	14044364	1289	2
Helitron-4_AP	95.216	1735	14043074	14044808	1869	135
Helitron-7_AP	93.425	1308	14043091	14044398	1289	2
Helitron-8_AP	93.886	1145	14043107	14044251	1143	1
Helitron-8_AP	92.570	1144	14043142	14044285	1142	1
Helitron-7_AP	93.876	1290	14043159	14044432	1289	2
Helitron-8_AP	93.100	1145	14043175	14044319	1143	1
Helitron-7_AP	93.196	1308	14043193	14044500	1289	2
Helitron-8_AP	93.357	1144	14043210	14044353	1142	1
Helitron-7_AP	93.201	1309	14043227	14044535	1289	1
Helitron-8_AP	93.100	1145	14043243	14044387	1143	1
Helitron-7_AP	93.201	1309	14043261	14044569	1289	1
Helitron-8_AP	93.188	1145	14043277	14044421	1143	1
Helitron-7_AP	93.583	1309	14043295	14044603	1289	1
Helitron-8_AP	92.395	1144	14043312	14044455	1142	1
Helitron-7_AP	93.506	1309	14043329	14044637	1289	1
Helitron-8_AP	93.712	1145	14043345	14044489	1143	1
Helitron-7_AP	92.743	1309	14043363	14044671	1289	1
Helitron-8_AP	92.570	1144	14043380	14044523	1142	1
Helitron-7_AP	93.430	1309	14043397	14044705	1289	1
Helitron-8_AP	92.489	1145	14043413	14044557	1143	1
Helitron-7_AP	93.659	1309	14043431	14044739	1289	1
Helitron-8_AP	92.570	1144	14043448	14044591	1142	1
Helitron-7_AP	93.430	1309	14043465	14044773	1289	1
Helitron-8_AP	92.576	1145	14043481	14044625	1143	1
Helitron-7_AP	92.895	1309	14043499	14044807	1289	1
Helitron-8_AP	92.657	1144	14043516	14044659	1142	1
Helitron-7_AP	93.583	1309	14043533	14044841	1289	1
Helitron-8_AP	91.965	1145	14043549	14044693	1143	1
Helitron-7_AP	94.423	1309	14043567	14044875	1289	1
Helitron-8_AP	92.227	1145	14043583	14044727	1143	1
Helitron-8_AP	93.275	1145	14043617	14044761	1143	1
Helitron-7_AP	93.338	1291	14043635	14044909	1289	1
Helitron-8_AP	92.308	1144	14043652	14044795	1142	1
Helitron-8_AP	92.227	1145	14043685	14044829	1143	1
Helitron-8_AP	92.314	1145	14043719	14044863	1143	1
Helitron-7_AP	94.370	1190	14043737	14044910	1289	102

Helitron-8_AP	92.227	1145	14043753	14044897	1143	1
Helitron-7_AP	94.554	1120	14043805	14044908	1289	172
Helitron-8_AP	92.178	946	14043959	14044904	1141	198
Helitron-8_AP	98.889	90	14044128	14044217	90	1
Helitron-7_AP	95.219	732	14044145	14044876	1289	560
Helitron-7_AP	94.679	733	14044179	14044911	1289	559
Helitron-8_AP	91.312	541	14044365	14044905	1143	603
Helitron-8_AP	98.485	66	14048361	14048426	1127	1192
Helitron-8_AP	94.305	1317	14048419	14049735	1315	1
Helitron-8_AP	97.600	125	14048591	14048715	125	1
Helitron-8_AP	94.444	90	14048592	14048681	90	1
Helitron-7_AP	95.522	134	14048593	14048726	135	2
Helitron-4_AP	92.929	99	14048596	14048694	233	135
Helitron-7_AP	93.520	571	14048598	14049168	571	2
Helitron-7_AP	94.041	1309	14048609	14049917	1289	1
Helitron-4_AP	93.408	1881	14048626	14050506	1869	3
Helitron-7_AP	94.037	1308	14048643	14049950	1289	2
Helitron-8_AP	93.624	1145	14048659	14049803	1143	1
Helitron-8_AP	92.570	1144	14048694	14049837	1142	1
Helitron-7_AP	94.031	1290	14048711	14049984	1289	2
Helitron-8_AP	92.489	1145	14048727	14049871	1143	1
Helitron-7_AP	94.113	1308	14048745	14050052	1289	2
Helitron-8_AP	93.362	1145	14048761	14049905	1143	1
Helitron-7_AP	93.506	1309	14048779	14050087	1289	1
Helitron-8_AP	92.395	1144	14048796	14049939	1142	1
Helitron-7_AP	93.731	1308	14048813	14050120	1289	2
Helitron-8_AP	92.140	1145	14048829	14049973	1143	1
Helitron-7_AP	94.801	1308	14048847	14050154	1289	2
Helitron-8_AP	92.745	1144	14048864	14050007	1142	1
Helitron-7_AP	93.807	1308	14048881	14050188	1289	2
Helitron-8_AP	93.013	1145	14048897	14050041	1143	1
Helitron-8_AP	92.140	1145	14048931	14050075	1143	1
Helitron-7_AP	94.113	1291	14048949	14050223	1289	1
Helitron-8_AP	92.570	1144	14048966	14050109	1142	1
Helitron-7_AP	94.037	1308	14048983	14050290	1289	2
Helitron-8_AP	92.570	1144	14049000	14050143	1142	1
Helitron-7_AP	93.578	1308	14049017	14050324	1289	2
Helitron-8_AP	92.227	1145	14049033	14050177	1143	1
Helitron-8_AP	92.570	1144	14049068	14050211	1142	1
Helitron-7_AP	93.876	1290	14049085	14050358	1289	2
Helitron-8_AP	92.926	1145	14049101	14050245	1143	1
Helitron-8_AP	92.576	1145	14049135	14050279	1143	1
Helitron-8_AP	92.576	1145	14049169	14050313	1143	1
Helitron-8_AP	92.133	1144	14049204	14050347	1142	1
Helitron-8_AP	92.169	945	14049407	14050351	1143	201
Helitron-7_AP	95.225	733	14049629	14050361	1289	559
Helitron-8_AP	98.485	66	14053818	14053883	1127	1192
Helitron-8_AP	94.381	1317	14053876	14055192	1315	1

Helitron-8_AP	97.600	125	14054048	14054172	125	1
Helitron-8_AP	94.444	90	14054049	14054138	90	1
Helitron-7_AP	95.522	134	14054050	14054183	135	2
Helitron-4_AP	92.929	99	14054053	14054151	233	135
Helitron-7_AP	93.520	571	14054055	14054625	571	2
Helitron-7_AP	94.041	1309	14054066	14055374	1289	1
Helitron-4_AP	94.418	1666	14054083	14055748	1869	204
Helitron-7_AP	93.731	1308	14054100	14055407	1289	2
Helitron-8_AP	93.712	1145	14054116	14055260	1143	1
Helitron-7_AP	93.277	1309	14054134	14055442	1289	1
Helitron-8_AP	92.657	1144	14054151	14055294	1142	1
Helitron-7_AP	93.583	1309	14054168	14055476	1289	1
Helitron-8_AP	92.576	1145	14054184	14055328	1143	1
Helitron-7_AP	94.194	1309	14054202	14055510	1289	1
Helitron-8_AP	93.362	1145	14054218	14055362	1143	1
Helitron-7_AP	93.736	1309	14054236	14055544	1289	1
Helitron-8_AP	92.570	1144	14054253	14055396	1142	1
Helitron-7_AP	93.888	1309	14054270	14055578	1289	1
Helitron-8_AP	92.052	1145	14054286	14055430	1143	1
Helitron-7_AP	94.576	1309	14054304	14055612	1289	1
Helitron-8_AP	92.920	1144	14054321	14055464	1142	1
Helitron-7_AP	93.888	1309	14054338	14055646	1289	1
Helitron-8_AP	92.664	1145	14054354	14055498	1143	1
Helitron-7_AP	93.430	1309	14054372	14055680	1289	1
Helitron-8_AP	92.227	1145	14054388	14055532	1143	1
Helitron-7_AP	93.888	1309	14054406	14055714	1289	1
Helitron-8_AP	92.308	1144	14054423	14055566	1142	1
Helitron-8_AP	92.395	1144	14054457	14055600	1142	1
Helitron-8_AP	92.140	1145	14054490	14055634	1143	1
Helitron-8_AP	92.308	1144	14054525	14055668	1142	1
Helitron-8_AP	92.664	1145	14054558	14055702	1143	1
Helitron-7_AP	94.034	1190	14054576	14055749	1289	102
Helitron-8_AP	91.965	1145	14054592	14055736	1143	1
Helitron-7_AP	94.107	1120	14054644	14055747	1289	172
Helitron-8_AP	91.350	948	14054796	14055743	1143	198
Helitron-7_AP	94.672	732	14054984	14055715	1289	560
Helitron-7_AP	94.679	733	14055018	14055750	1289	559
Helitron-8_AP	90.573	541	14055204	14055744	1143	603
Helitron-8_AP	98.485	66	14059200	14059265	1127	1192
Helitron-8_AP	94.761	1317	14059258	14060574	1315	1
Helitron-8_AP	97.600	125	14059430	14059554	125	1
Helitron-8_AP	94.444	90	14059431	14059520	90	1
Helitron-7_AP	95.522	134	14059432	14059565	135	2
Helitron-4_AP	92.929	99	14059435	14059533	233	135
Helitron-7_AP	93.520	571	14059437	14060007	571	2
Helitron-7_AP	93.101	1290	14059448	14060721	1289	2
Helitron-4_AP	94.864	1733	14059465	14061197	1869	137
Helitron-7_AP	93.043	1308	14059482	14060789	1289	2

Helitron-8_AP	93.013	1145	14059498	14060642	1143	1
Helitron-7_AP	92.819	1309	14059516	14060824	1289	1
Helitron-8_AP	93.531	1144	14059533	14060676	1142	1
Helitron-7_AP	92.819	1309	14059550	14060858	1289	1
Helitron-8_AP	92.926	1145	14059566	14060710	1143	1
Helitron-7_AP	93.277	1309	14059584	14060892	1289	1
Helitron-8_AP	92.489	1145	14059600	14060744	1143	1
Helitron-7_AP	93.043	1308	14059618	14060925	1289	2
Helitron-8_AP	92.657	1144	14059635	14060778	1142	1
Helitron-7_AP	93.349	1308	14059652	14060959	1289	2
Helitron-8_AP	92.576	1145	14059668	14060812	1143	1
Helitron-8_AP	93.007	1144	14059703	14060846	1142	1
Helitron-7_AP	93.349	1308	14059720	14061027	1289	2
Helitron-8_AP	92.227	1145	14059736	14060880	1143	1
Helitron-7_AP	92.890	1308	14059754	14061061	1289	2
Helitron-8_AP	92.832	1144	14059771	14060914	1142	1
Helitron-7_AP	93.043	1308	14059788	14061095	1289	2
Helitron-8_AP	92.227	1145	14059804	14060948	1143	1
Helitron-8_AP	91.783	1144	14059839	14060982	1142	1
Helitron-7_AP	93.338	1291	14059856	14061130	1289	1
Helitron-8_AP	92.402	1145	14059872	14061016	1143	1
Helitron-8_AP	92.140	1145	14059906	14061050	1143	1
Helitron-7_AP	93.272	1308	14059924	14061231	1289	2
Helitron-8_AP	92.926	1145	14059940	14061084	1143	1
Helitron-7_AP	92.743	1309	14059958	14061266	1289	1
Helitron-8_AP	91.958	1144	14059975	14061118	1142	1
Helitron-7_AP	93.425	1308	14059992	14061299	1289	2
Helitron-8_AP	91.965	1145	14060008	14061152	1143	1
Helitron-7_AP	92.890	1308	14060026	14061333	1289	2
Helitron-8_AP	93.013	1145	14060042	14061186	1143	1
Helitron-7_AP	92.890	1308	14060060	14061367	1289	2
Helitron-8_AP	91.965	1145	14060076	14061220	1143	1
Helitron-8_AP	92.227	1145	14060110	14061254	1143	1
Helitron-7_AP	92.966	1308	14060128	14061435	1289	2
Helitron-8_AP	92.745	1144	14060145	14061288	1142	1
Helitron-7_AP	93.048	1309	14060162	14061470	1289	1
Helitron-8_AP	92.489	1145	14060178	14061322	1143	1
Helitron-7_AP	92.590	1309	14060196	14061504	1289	1
Helitron-8_AP	92.576	1145	14060212	14061356	1143	1
Helitron-8_AP	91.871	1144	14060247	14061390	1142	1
Helitron-7_AP	93.726	1291	14060264	14061538	1289	1
Helitron-8_AP	93.188	1145	14060280	14061424	1143	1
Helitron-7_AP	92.437	1309	14060298	14061606	1289	1
Helitron-8_AP	92.227	1145	14060314	14061458	1143	1
Helitron-7_AP	92.819	1309	14060332	14061640	1289	1
Helitron-8_AP	92.052	1145	14060348	14061492	1143	1
Helitron-7_AP	93.277	1309	14060366	14061674	1289	1
Helitron-8_AP	92.220	1144	14060383	14061526	1142	1

Helitron-7_AP	93.201	1309	14060400	14061708	1289	1
Helitron-8_AP	92.314	1145	14060416	14061560	1143	1
Helitron-7_AP	92.819	1309	14060434	14061742	1289	1
Helitron-8_AP	92.314	1145	14060450	14061594	1143	1
Helitron-7_AP	93.201	1309	14060468	14061776	1289	1
Helitron-8_AP	91.528	1145	14060484	14061628	1143	1
Helitron-7_AP	94.194	1309	14060502	14061810	1289	1
Helitron-8_AP	91.965	1145	14060518	14061662	1143	1
Helitron-8_AP	98.889	90	14060519	14060608	90	1
Helitron-8_AP	93.013	1145	14060552	14061696	1143	1
Helitron-8_AP	91.958	1144	14060587	14061730	1142	1
Helitron-8_AP	91.871	1144	14060621	14061764	1142	1
Helitron-7_AP	93.445	1190	14060638	14061811	1289	102
Helitron-8_AP	92.018	1140	14060659	14061798	1138	1
Helitron-7_AP	93.125	1120	14060706	14061809	1289	172
Helitron-8_AP	91.658	947	14060859	14061805	1142	198
Helitron-7_AP	95.355	732	14061046	14061777	1289	560
Helitron-7_AP	95.089	733	14061080	14061812	1289	559
Helitron-8_AP	91.667	540	14061267	14061806	1142	603
Helitron-7_AP	98.438	64	14061509	14061572	64	1
Helitron-8_AP	97.297	74	14065414	14065487	10878	10805
Helitron-8_AP	98.649	74	14067219	14067292	10878	10805
Helitron-8_AP	100.000	72	14069147	14069218	10878	10807
Helitron-8_AP	100.000	72	14070638	14070709	10878	10807
Helitron-8_AP	100.000	72	14071907	14071978	10878	10807
Helitron-8_AP	100.000	72	14073098	14073169	10878	10807
Helitron-8_AP	100.000	72	14074589	14074660	10878	10807
Helitron-8_AP	98.611	72	14075788	14075859	10878	10807
Helitron-8_AP	100.000	72	14077082	14077153	10878	10807
Helitron-6_AP	97.802	91	14078342	14078432	11736	11646
Helitron-8_AP	100.000	72	14079816	14079887	10878	10807
Helitron-8_AP	100.000	72	14081145	14081216	10878	10807
Helitron-6_AP	98.947	6744	14082451	14089188	11736	5002
Helitron-8_AP	89.324	740	14082952	14083652	10550	9818
Helitron-9_AP	93.695	793	14094883	14095670	2653	1864
Helitron-9_AP	95.314	1942	14095453	14097363	1922	1
Helitron-9_AP	83.824	204	14095472	14095669	2011	1811
Helitron-1_AP	88.471	425	14098248	14098659	1438	1031
Helitron-1_AP	93.510	832	14098669	14099464	832	1
Helitron-6_AP	96.703	91	14102565	14102655	11736	11646
Helitron-6_AP	94.505	91	14104023	14104113	11736	11647
Helitron-8_AP	97.222	72	14105071	14105141	10878	10807
Helitron-8_AP	98.611	72	14106482	14106553	10878	10807
Helitron-8_AP	100.000	72	14107638	14107709	10878	10807
Helitron-8_AP	97.260	73	14108841	14108913	10878	10807
Helitron-8_AP	97.297	74	14110133	14110206	10878	10807
Helitron-6_AP	96.667	90	14389396	14389485	11647	11736
Helitron-6_AP	95.604	91	14391248	14391338	11646	11736

Helitron-11_AP	98.529	68	14392638	14392705	8944	9011
Helitron-6_AP	95.604	91	14393711	14393801	11646	11736
Helitron-6_AP	97.802	91	14395062	14395152	11646	11736
Helitron-6_AP	93.333	90	14396610	14396699	11647	11736
Helitron-6_AP	93.333	90	14398278	14398367	11647	11736
Helitron-6_AP	95.604	91	14399110	14399200	11646	11736
Helitron-8_AP	98.611	72	15336357	15336428	10878	10807
Helitron-8_AP	97.222	72	15339354	15339425	10878	10807
Helitron-6_AP	96.667	90	15342506	15342595	11736	11647
Helitron-6_AP	95.556	90	15343745	15343834	11736	11647
Helitron-6_AP	96.667	90	15344783	15344872	11736	11647
Helitron-8_AP	100.000	72	15345949	15346020	10878	10807
Helitron-6_AP	95.556	90	15347479	15347568	11736	11647
Helitron-6_AP	96.667	90	15348843	15348932	11736	11647
Helitron-6_AP	92.222	90	15349893	15349982	11736	11647
Helitron-6_AP	92.222	90	15351408	15351497	11736	11647
Helitron-8_AP	100.000	72	15353046	15353117	10878	10807
Helitron-6_AP	96.667	90	15354614	15354703	11736	11647
Helitron-8_AP	100.000	72	15355939	15356010	10878	10807
Helitron-6_AP	95.604	91	15357599	15357689	11736	11646
Helitron-6_AP	96.703	91	15359194	15359284	11736	11646
Helitron-8_AP	100.000	74	15552218	15552291	10878	10805
Helitron-6_AP	94.444	90	15553655	15553743	11736	11647
Helitron-8_AP	98.611	72	15555042	15555113	10878	10807
Helitron-6_AP	95.604	91	15556734	15556823	11736	11646
Helitron-8_AP	97.297	74	15558213	15558286	10878	10805
Helitron-6_AP	93.333	90	15559798	15559887	11736	11647
Helitron-8_AP	100.000	72	15561266	15561337	10878	10807
Helitron-8_AP	100.000	72	15562728	15562799	10878	10807
Helitron-6_AP	96.667	90	15564147	15564236	11736	11647
Helitron-6_AP	94.444	90	15565687	15565776	11736	11647
Helitron-6_AP	98.630	73	15567546	15567618	11736	11664
Helitron-8_AP	97.222	72	15569082	15569153	10878	10807
Helitron-8_AP	100.000	72	15571151	15571222	10878	10807
Helitron-8_AP	100.000	72	15573283	15573354	10878	10807
Helitron-8_AP	98.611	72	15574592	15574663	10878	10807
Helitron-8_AP	98.611	72	15576238	15576309	10878	10807
Helitron-6_AP	94.444	90	15578310	15578399	11736	11647
Helitron-8_AP	100.000	72	15579088	15579159	10878	10807
Helitron-8_AP	100.000	72	15581182	15581253	10878	10807
Helitron-6_AP	95.556	90	15582485	15582574	11736	11647
Helitron-6_AP	96.703	91	15583755	15583845	11736	11646
Helitron-8_AP	97.222	72	16181915	16181986	10878	10807
Helitron-6_AP	96.667	90	16183041	16183130	11736	11647
Helitron-6_AP	92.222	90	16184226	16184315	11736	11647
Helitron-8_AP	98.611	72	16185675	16185746	10878	10807
Helitron-8_AP	98.611	72	16187066	16187137	10878	10807
Helitron-8_AP	98.611	72	16188748	16188819	10878	10807

Helitron-6_AP	96.667	90	16190049	16190138	11736	11647
Helitron-10_AP	97.141	1224	16191474	16192689	9618	8416
Helitron-8_AP	89.879	741	16191975	16192681	10550	9818
Helitron-2_AP	99.421	12090	16192047	16204131	12042	1
Helitron-12_AP	97.246	6535	16192684	16199207	15544	9019
Helitron-6_AP	99.320	10591	16192696	16203282	10550	1
Helitron-10_AP	98.206	8475	16192698	16201169	8447	1
Helitron-9_AP	98.470	8236	16192699	16200929	8195	1
Helitron-5_AP	99.123	10380	16193813	16204187	10325	1
Helitron-9_AP	80.000	245	16198809	16199051	1922	1683
Helitron-2_AP	81.043	211	16198828	16199036	5095	4890
Helitron-10_AP	84.277	318	16198882	16199195	2316	2003
Helitron-10_AP	84.496	258	16198936	16199187	2316	2062
Helitron-10_AP	80.973	226	16198990	16199210	2316	2093
Helitron-12_AP	94.083	169	16200791	16200959	7407	7239
Helitron-8_AP	100.000	72	16205768	16205839	10878	10807
Helitron-8_AP	100.000	72	16207201	16207272	10878	10807
Helitron-1_AP	90.625	128	16255859	16255981	1584	1458
Helitron-8_AP	98.529	68	16843554	16843621	10874	10807
Helitron-11_AP	100.000	68	16850541	16850608	8944	9011
Helitron-11_AP	96.970	66	16851871	16851936	8944	9009
Helitron-6_AP	95.556	90	16852749	16852838	11646	11735
Helitron-6_AP	96.667	90	16853903	16853992	11647	11736
Helitron-6_AP	93.333	90	16855284	16855373	11647	11736
Helitron-11_AP	98.571	70	16858311	16858380	8942	9011
Helitron-11_AP	100.000	68	16859612	16859679	8944	9011
Helitron-6_AP	96.667	90	16861138	16861227	11647	11736
Helitron-11_AP	98.529	68	16863478	16863545	8944	9011
Helitron-6_AP	93.333	90	16864755	16864844	11647	11736
Helitron-11_AP	98.571	70	16867780	16867849	8942	9011
Helitron-6_AP	96.667	90	16869364	16869453	11647	11736
Helitron-6_AP	93.333	90	16871073	16871162	11647	11736
Helitron-6_AP	96.667	90	16872132	16872221	11647	11736
Helitron-6_AP	95.604	91	16874955	16875045	11647	11736
Helitron-1_AP	90.625	128	17045581	17045703	1584	1458
Helitron-6_AP	98.630	73	17173351	17173423	11736	11664
Helitron-6_AP	98.889	90	17174802	17174891	11736	11647
Helitron-6_AP	95.556	90	17176506	17176595	11736	11647
Helitron-6_AP	93.333	90	17177912	17178001	11736	11647
Helitron-8_AP	100.000	72	17179128	17179199	10878	10807
Helitron-8_AP	98.611	72	17180427	17180498	10878	10807
Helitron-8_AP	98.649	74	17181866	17181939	10878	10805
Helitron-6_AP	93.333	90	17183881	17183970	11736	11647
Helitron-8_AP	97.297	74	17185489	17185562	10878	10805
Helitron-8_AP	98.611	72	17187068	17187139	10878	10807
Helitron-8_AP	98.611	72	17189448	17189519	10878	10807
Helitron-6_AP	93.333	90	17191101	17191190	11736	11647
Helitron-6_AP	97.802	91	17192319	17192409	11736	11646

Helitron-6_AP	96.703	91	17193683	17193773	11736	11646
Helitron-8_AP	98.611	72	17195293	17195364	10878	10807
Helitron-6_AP	97.802	91	17196723	17196813	11736	11646
Helitron-6_AP	97.802	91	17198191	17198281	11736	11646
Helitron-8_AP	100.000	72	17199818	17199889	10878	10807
Helitron-8_AP	100.000	72	17201461	17201532	10878	10807
Helitron-6_AP	96.667	90	17202636	17202725	11736	11647
Helitron-8_AP	98.611	72	17204497	17204568	10878	10807
Helitron-6_AP	98.889	90	17205839	17205928	11736	11647
Helitron-6_AP	96.667	90	17207546	17207635	11736	11647
Helitron-8_AP	100.000	72	17208878	17208949	10878	10807
Helitron-8_AP	98.611	72	17211086	17211157	10878	10807
Helitron-8_AP	98.611	72	17212557	17212628	10878	10807
Helitron-8_AP	100.000	72	17214011	17214082	10878	10807
Helitron-6_AP	95.556	90	17215380	17215469	11736	11647
Helitron-4_AP	97.059	68	18310492	18310559	11527	11594
Helitron-6_AP	96.667	90	18312075	18312164	11647	11736
Helitron-11_AP	95.714	70	18313646	18313715	8944	9011
Helitron-6_AP	95.604	91	18495937	18496027	11736	11646
Helitron-11_AP	100.000	68	19181854	19181921	8944	9011
Helitron-6_AP	98.889	90	19183066	19183155	11647	11736
Helitron-6_AP	98.630	73	19184678	19184750	11664	11736
Helitron-6_AP	97.260	73	19186178	19186250	11664	11736
Helitron-6_AP	94.505	91	20088217	20088307	11736	11646
Helitron-6_AP	97.802	91	20092296	20092386	11736	11646
Helitron-8_AP	97.297	74	20093704	20093777	10878	10807
Helitron-6_AP	98.630	73	20095441	20095513	11736	11664
Helitron-8_AP	100.000	72	20096625	20096696	10878	10807
Helitron-6_AP	96.703	91	20097877	20097967	11736	11646
Helitron-6_AP	97.802	91	20098969	20099059	11736	11646
Helitron-6_AP	96.703	91	20100198	20100288	11736	11646
Helitron-6_AP	95.556	90	20101043	20101132	11736	11647
Helitron-6_AP	96.667	90	20104532	20104621	11736	11647
Helitron-6_AP	96.703	91	20105886	20105976	11736	11646
Helitron-6_AP	96.667	90	20106710	20106799	11736	11647
Helitron-6_AP	96.703	91	20108167	20108257	11736	11646
Helitron-6_AP	96.667	90	20109005	20109094	11736	11647
Helitron-6_AP	92.222	90	20110117	20110206	11736	11647
Helitron-8_AP	97.297	74	20111622	20111695	10878	10805
Helitron-6_AP	96.667	90	20113164	20113253	11736	11647
Helitron-6_AP	96.667	90	20114279	20114368	11736	11647
Helitron-6_AP	93.333	90	20115391	20115480	11736	11647
Helitron-6_AP	95.604	91	20117029	20117119	11736	11646
Helitron-6_AP	96.667	90	20117914	20118003	11736	11647
Helitron-6_AP	96.703	91	20119215	20119305	11736	11646
Helitron-8_AP	100.000	72	20120065	20120136	10878	10807
Helitron-6_AP	97.653	213	20121737	20121948	11736	11524
Helitron-1_AP	97.971	838	20121945	20122780	11393	10561

Helitron-1_AP	97.100	6483	20122816	20129267	10488	4013
Helitron-11_AP	76.422	1951	20125769	20127698	4917	2984
Helitron-12_AP	82.222	270	20128897	20129159	9186	8925
Helitron-9_AP	83.540	322	20128898	20129213	2011	1697
Helitron-9_AP	85.492	386	20128951	20129332	2065	1686
Helitron-12_AP	87.983	466	20128980	20129440	9371	8914
Helitron-10_AP	86.010	386	20129008	20129389	2314	1934
Helitron-9_AP	84.182	373	20129111	20129479	2065	1698
Helitron-12_AP	85.897	390	20129165	20129545	9400	9019
Helitron-9_AP	83.072	319	20129219	20129533	2065	1752
Helitron-6_AP	82.648	219	20131572	20131787	1416	1219
Helitron-1_AP	96.154	182	20132863	20133043	182	1
Helitron-5_AP	91.463	82	20134416	20134497	89	11
Helitron-6_AP	97.802	91	20135641	20135731	11736	11646
Helitron-6_AP	97.802	91	20136466	20136556	11736	11646
Helitron-8_AP	97.222	72	20137572	20137643	10878	10807
Helitron-6_AP	97.260	73	20138651	20138723	11736	11664
Helitron-8_AP	97.297	74	20141586	20141659	10878	10805
Helitron-6_AP	95.604	91	20143074	20143164	11736	11646
Helitron-6_AP	96.667	90	20143884	20143973	11736	11647
Helitron-6_AP	95.604	91	20144746	20144836	11736	11646
Helitron-8_AP	100.000	72	20145631	20145702	10878	10807
Helitron-8_AP	98.611	72	20147072	20147143	10878	10807
Helitron-8_AP	97.297	74	20148733	20148806	10878	10805
Helitron-8_AP	98.649	74	20150311	20150384	10878	10805
Helitron-8_AP	100.000	72	20151841	20151912	10878	10807
Helitron-8_AP	97.222	72	20154118	20154189	10878	10807
Helitron-6_AP	95.604	91	20156018	20156108	11736	11646
Helitron-6_AP	96.667	90	20156821	20156910	11736	11647
Helitron-8_AP	98.611	72	20157683	20157753	10878	10807
Helitron-8_AP	98.649	74	20159119	20159192	10878	10805
Helitron-8_AP	98.611	72	20160834	20160905	10878	10807
Helitron-8_AP	98.611	72	20162192	20162263	10878	10807
Helitron-8_AP	97.297	74	20163853	20163926	10878	10805
Helitron-8_AP	98.649	74	20165433	20165506	10878	10805
Helitron-8_AP	98.611	72	20166963	20167034	10878	10807
Helitron-8_AP	100.000	72	20168477	20168548	10878	10807
Helitron-8_AP	97.222	72	20170755	20170826	10878	10807
Helitron-6_AP	96.703	91	20172576	20172666	11736	11646
Helitron-6_AP	95.604	91	20173676	20173766	11736	11646
Helitron-6_AP	97.260	73	20174573	20174645	11736	11664
Helitron-6_AP	95.890	73	20634533	20634605	11736	11664
Helitron-8_AP	98.649	74	20686225	20686298	10878	10805
Helitron-8_AP	94.444	72	20817533	20817604	10807	10878
Helitron-11_AP	100.000	68	20818846	20818913	8944	9011
Helitron-6_AP	97.802	91	20820289	20820379	11646	11736
Helitron-11_AP	98.529	68	20821685	20821752	8944	9011
Helitron-11_AP	98.529	68	20823179	20823246	8944	9011

Helitron-11_AP	98.529	68	20824606	20824673	8944	9011
Helitron-11_AP	100.000	70	20825803	20825872	8942	9011
Helitron-11_AP	97.143	70	20827333	20827402	8942	9011
Helitron-6_AP	94.444	90	20828156	20828245	11647	11736
Helitron-6_AP	97.802	91	20829618	20829708	11646	11736
Helitron-6_AP	97.260	73	20831052	20831124	11664	11736
Helitron-11_AP	100.000	68	20832326	20832393	8944	9011
Helitron-11_AP	98.529	68	20833835	20833902	8944	9011
Helitron-6_AP	97.260	73	20835331	20835403	11664	11736
Helitron-6_AP	96.703	91	20836136	20836226	11646	11736
Helitron-11_AP	100.000	68	20838025	20838092	8944	9011
Helitron-11_AP	98.529	68	20839815	20839882	8944	9011
Helitron-11_AP	100.000	68	20841911	20841978	8944	9011
Helitron-11_AP	98.571	70	20843440	20843509	8942	9011
Helitron-6_AP	97.802	91	20844518	20844608	11646	11736
Helitron-6_AP	96.703	91	20845404	20845494	11646	11736
Helitron-6_AP	97.802	91	20847717	20847807	11646	11736
Helitron-6_AP	95.556	90	20848638	20848727	11647	11736
Helitron-6_AP	97.802	91	20849604	20849694	11646	11736
Helitron-11_AP	98.529	68	20851285	20851352	8944	9011
Helitron-6_AP	98.901	91	20852119	20852209	11646	11736
Helitron-6_AP	94.444	90	20853488	20853577	11647	11736
Helitron-8_AP	98.571	70	20875180	20875249	10874	10805
Helitron-6_AP	96.667	90	20877303	20877392	11736	11647
Helitron-6_AP	96.667	90	20878415	20878504	11736	11647
Helitron-6_AP	92.222	90	20879722	20879811	11736	11647
Helitron-6_AP	96.667	90	20881183	20881272	11736	11647
Helitron-6_AP	96.667	90	20882416	20882505	11736	11647
Helitron-6_AP	95.556	90	20883719	20883808	11736	11647
Helitron-6_AP	96.667	90	20885067	20885156	11736	11647
Helitron-8_AP	100.000	72	20886309	20886380	10878	10807
Helitron-8_AP	97.297	74	20887970	20888043	10878	10805
Helitron-8_AP	98.611	72	20889500	20889571	10878	10807
Helitron-8_AP	98.611	72	20891191	20891262	10878	10807
Helitron-6_AP	95.604	91	20893528	20893618	11736	11647
Helitron-8_AP	100.000	72	20894830	20894901	10878	10807
Helitron-8_AP	100.000	72	20896020	20896091	10878	10807
Helitron-8_AP	100.000	72	20897212	20897283	10878	10807
Helitron-8_AP	97.260	73	20898464	20898536	10878	10807
Helitron-8_AP	100.000	72	20899655	20899726	10878	10807
Helitron-8_AP	97.297	74	20900847	20900920	10878	10805
Helitron-8_AP	100.000	72	20902473	20902544	10878	10807
Helitron-8_AP	100.000	72	20904753	20904824	10878	10807
Helitron-8_AP	98.611	72	20907039	20907110	10878	10807
Helitron-8_AP	100.000	74	20908585	20908658	10878	10805
Helitron-8_AP	98.611	72	20910302	20910373	10878	10807
Helitron-8_AP	98.611	72	20911808	20911879	10878	10807
Helitron-8_AP	100.000	72	20913269	20913340	10878	10807

Helitron-8_AP	100.000	64	20915134	20915197	10878	10815
Helitron-8_AP	100.000	72	20915717	20915788	10878	10807
Helitron-8_AP	100.000	72	20916907	20916978	10878	10807
Helitron-8_AP	97.297	74	20918100	20918173	10878	10805
Helitron-8_AP	98.611	72	20919630	20919701	10878	10807
Helitron-8_AP	98.649	74	20921414	20921487	10878	10805
Helitron-8_AP	100.000	72	20923740	20923811	10878	10807
Helitron-8_AP	100.000	70	20925100	20925169	10874	10805
Helitron-8_AP	100.000	72	20926351	20926422	10878	10807
Helitron-8_AP	98.611	72	20927950	20928021	10878	10807
Helitron-8_AP	100.000	72	20929740	20929811	10878	10807
Helitron-8_AP	98.462	65	20931039	20931103	10878	10814
Helitron-6_AP	96.667	90	20931478	20931567	11736	11647
Helitron-6_AP	96.703	91	20932242	20932332	11736	11646
Helitron-6_AP	91.784	1205	20932468	20933639	11684	10517
Helitron-8_AP	86.400	750	20932933	20933632	10550	9818
Helitron-2_AP	95.335	8318	20933011	20941280	12042	3755
Helitron-6_AP	95.747	7666	20933634	20941286	10550	2911
Helitron-12_AP	86.275	306	20939855	20940160	9373	9070
Helitron-10_AP	84.672	274	20939885	20940157	2314	2042
Helitron-1_AP	79.769	173	20939973	20940145	4399	4227
Helitron-6_AP	83.702	497	20942452	20942942	1445	970
Helitron-1_AP	99.333	150	20947706	20947855	150	1
Helitron-2_AP	89.552	335	20951144	20951469	597	264
Helitron-5_AP	89.655	145	20951636	20951771	144	1
Helitron-8_AP	98.611	72	20954684	20954755	10878	10807
Helitron-8_AP	98.611	72	20958323	20958394	10878	10807
Helitron-8_AP	98.649	74	20960198	20960271	10878	10805
Helitron-6_AP	97.802	91	20961842	20961932	11736	11646
Helitron-8_AP	97.222	72	20965321	20965392	10878	10807
Helitron-8_AP	98.611	72	20966634	20966705	10878	10807
Helitron-8_AP	98.611	72	20968430	20968501	10878	10807
Helitron-8_AP	98.649	74	20970220	20970293	10878	10805
Helitron-8_AP	100.000	74	20971765	20971838	10878	10805
Helitron-6_AP	97.802	91	20973379	20973469	11736	11646
Helitron-1_AP	94.659	1217	20974314	20975500	11739	10536
Helitron-8_AP	88.544	742	20974806	20975501	10550	9820
Helitron-1_AP	97.287	6413	20975485	20981893	10517	4107
Helitron-9_AP	80.786	229	20981603	20981827	1922	1698
Helitron-12_AP	83.929	280	20981620	20981896	9349	9070
Helitron-12_AP	92.899	169	20983452	20983620	7407	7239
Helitron-10_AP	94.521	73	20983720	20983792	73	1
Helitron-1_AP	95.683	834	20984886	20985707	833	1
Helitron-2_AP	93.943	842	20994398	20995230	837	1
Helitron-6_AP	95.556	90	20996790	20996879	11736	11647
Helitron-6_AP	96.667	90	20999389	20999478	11736	11647
Helitron-6_AP	92.222	90	21000531	21000620	11736	11647
Helitron-6_AP	96.667	90	21001977	21002066	11736	11647

Helitron-6_AP	97.778	90	21003283	21003372	11736	11647
Helitron-8_AP	98.649	74	21004465	21004538	10878	10805
Helitron-8_AP	100.000	72	21005918	21005989	10878	10807
Helitron-6_AP	96.667	90	21007113	21007202	11736	11647
Helitron-8_AP	97.222	72	21008338	21008408	10878	10807
Helitron-9_AP	99.502	1206	21010024	21011228	9382	8178
Helitron-7_AP	90.336	745	21010525	21011234	8606	7870
Helitron-2_AP	99.199	12106	21010597	21022692	12042	1
Helitron-12_AP	96.989	6543	21011236	21017764	15544	9019
Helitron-6_AP	99.076	10604	21011250	21021843	10550	1
Helitron-10_AP	97.961	8485	21011252	21019730	8447	1
Helitron-9_AP	98.217	8246	21011253	21019490	8195	1
Helitron-5_AP	98.855	10395	21012367	21022748	10325	1
Helitron-9_AP	80.000	245	21017366	21017608	1922	1683
Helitron-2_AP	81.043	211	21017385	21017593	5095	4890
Helitron-10_AP	84.277	318	21017439	21017752	2316	2003
Helitron-10_AP	84.496	258	21017493	21017744	2316	2062
Helitron-12_AP	94.083	169	21019352	21019520	7407	7239
Helitron-8_AP	97.222	72	21025076	21025147	10878	10807
Helitron-8_AP	100.000	72	21026874	21026945	10878	10807
Helitron-1_AP	85.714	126	22001697	22001818	1584	1459
Helitron-8_AP	98.571	70	22105359	22105428	10874	10805
Helitron-1_AP	93.277	119	23709533	23709651	1581	1463
Helitron-6_AP	95.604	91	23987687	23987777	11736	11646
Helitron-6_AP	98.630	73	23988700	23988772	11736	11664
Helitron-8_AP	96.053	76	23989877	23989952	10878	10805
Helitron-6_AP	97.778	90	24127435	24127524	11736	11647
Helitron-8_AP	98.611	72	24129340	24129411	10878	10807
Helitron-8_AP	98.571	70	24130688	24130757	10876	10807
Helitron-8_AP	98.611	72	24132063	24132134	10878	10807
Helitron-6_AP	97.802	91	24133886	24133976	11736	11646
Helitron-8_AP	98.611	72	24135296	24135367	10878	10807
Helitron-8_AP	98.611	72	24136725	24136796	10878	10807
Helitron-8_AP	98.611	72	24138681	24138752	10878	10807
Helitron-8_AP	100.000	72	24140277	24140348	10878	10807
Helitron-8_AP	98.611	72	24141531	24141602	10878	10807
Helitron-8_AP	100.000	72	24142789	24142860	10878	10807
Helitron-8_AP	95.714	70	24144069	24144138	10874	10805
Helitron-8_AP	100.000	72	24145863	24145934	10878	10807
Helitron-8_AP	95.714	70	24147145	24147214	10874	10805
Helitron-8_AP	98.649	74	24148940	24149013	10878	10805
Helitron-8_AP	97.222	72	24150470	24150541	10878	10807
Helitron-8_AP	97.297	74	24152256	24152329	10878	10807
Helitron-8_AP	97.260	73	24153550	24153622	10878	10807
Helitron-8_AP	97.222	72	24155154	24155224	10878	10807
Helitron-8_AP	97.222	72	24156414	24156484	10878	10807
Helitron-8_AP	95.714	70	24157702	24157771	10874	10805
Helitron-8_AP	97.260	73	24159501	24159573	10878	10807

Helitron-6_AP	97.802	91	24527965	24528055	11646	11736
Helitron-11_AP	97.143	70	24529312	24529381	8942	9011
Helitron-6_AP	96.703	91	24530094	24530184	11646	11736
Helitron-6_AP	96.667	90	24531220	24531309	11647	11736
Helitron-6_AP	96.667	90	24532348	24532437	11647	11736
Helitron-11_AP	98.529	68	24533763	24533830	8944	9011
Helitron-11_AP	98.529	68	24535397	24535464	8944	9011
Helitron-11_AP	98.529	68	24537492	24537559	8944	9011
Helitron-11_AP	98.529	68	24539120	24539187	8944	9011
Helitron-11_AP	98.529	68	24540812	24540879	8944	9011
Helitron-11_AP	98.529	68	24542180	24542247	8944	9011
Helitron-6_AP	97.802	91	24543622	24543712	11646	11736
Helitron-6_AP	93.333	90	24545032	24545121	11647	11736
Helitron-6_AP	97.778	90	24546143	24546232	11647	11736
Helitron-6_AP	96.703	91	24547041	24547131	11646	11736
Helitron-6_AP	95.604	91	24547873	24547963	11646	11736
Helitron-11_AP	98.529	68	24549642	24549709	8944	9011
Helitron-11_AP	100.000	68	24551228	24551295	8944	9011
Helitron-6_AP	96.667	90	24552500	24552589	11647	11736
Helitron-6_AP	97.802	91	24553848	24553938	11646	11736
Helitron-6_AP	95.604	91	24554939	24555029	11646	11736
Helitron-11_AP	98.529	68	24556593	24556660	8944	9011
Helitron-11_AP	98.529	68	24558093	24558160	8944	9011
Helitron-11_AP	100.000	68	24560038	24560105	8944	9011
Helitron-11_AP	98.571	70	24561910	24561979	8942	9011
Helitron-11_AP	98.529	68	24563295	24563362	8944	9011
Helitron-11_AP	98.571	70	24564465	24564534	8942	9011
Helitron-11_AP	100.000	68	24566155	24566222	8944	9011
Helitron-11_AP	100.000	68	24567345	24567412	8944	9011
Helitron-11_AP	100.000	68	24568534	24568601	8944	9011
Helitron-11_AP	100.000	68	24569725	24569792	8944	9011
Helitron-8_AP	98.611	72	24588589	24588660	10878	10807
Helitron-8_AP	98.611	72	24589783	24589854	10878	10807
Helitron-8_AP	98.611	72	24591157	24591228	10878	10807
Helitron-6_AP	96.703	91	24593059	24593149	11736	11646
Helitron-8_AP	100.000	64	24593869	24593932	10878	10815
Helitron-8_AP	100.000	72	24594499	24594570	10878	10807
Helitron-8_AP	100.000	72	24596489	24596560	10878	10807
Helitron-8_AP	98.649	74	24598778	24598851	10878	10805
Helitron-8_AP	97.333	75	24600930	24601004	10878	10805
Helitron-6_AP	96.667	90	24603024	24603113	11736	11647
Helitron-8_AP	97.297	74	24604206	24604279	10878	10805
Helitron-8_AP	100.000	72	24605728	24605799	10878	10807
Helitron-8_AP	98.611	72	24607669	24607740	10878	10807
Helitron-8_AP	100.000	72	24609549	24609620	10878	10807
Helitron-8_AP	100.000	72	24611384	24611455	10878	10807
Helitron-8_AP	98.649	74	24612552	24612625	10878	10805
Helitron-8_AP	100.000	72	24614476	24614547	10878	10807

Helitron-8_AP	100.000	72	24615857	24615928	10878	10807
Helitron-8_AP	100.000	74	24617392	24617465	10878	10805
Helitron-8_AP	100.000	72	24618929	24619000	10878	10807
Helitron-8_AP	100.000	72	24620667	24620738	10878	10807
Helitron-8_AP	93.243	74	24847279	24847352	10878	10805
Helitron-11_AP	100.000	68	24849752	24849819	8944	9011
Helitron-11_AP	98.529	68	24851538	24851605	8944	9011
Helitron-11_AP	100.000	60	24852287	24852346	8952	9011
Helitron-11_AP	98.529	68	24854163	24854230	8944	9011
Helitron-11_AP	98.571	70	24855810	24855879	8942	9011
Helitron-11_AP	98.529	68	24857379	24857446	8944	9011
Helitron-11_AP	100.000	68	24858684	24858751	8944	9011
Helitron-11_AP	98.529	68	24861897	24861964	8944	9011
Helitron-11_AP	98.529	68	24863291	24863358	8944	9011
Helitron-11_AP	97.059	68	24864587	24864653	8944	9011
Helitron-6_AP	96.703	91	24865462	24865552	11646	11736
Helitron-11_AP	100.000	68	24867052	24867119	8944	9011
Helitron-11_AP	100.000	68	24868347	24868414	8944	9011
Helitron-11_AP	98.529	68	24869809	24869876	8944	9011
Helitron-6_AP	95.556	90	24871099	24871187	11647	11736
Helitron-8_AP	98.649	74	24986465	24986538	10878	10805
Helitron-8_AP	98.611	72	24987982	24988053	10878	10807
Helitron-6_AP	96.703	91	24989898	24989987	11736	11646
Helitron-6_AP	96.667	90	24991259	24991348	11736	11647
Helitron-6_AP	95.556	90	24992479	24992568	11736	11647
Helitron-8_AP	98.649	74	24993867	24993940	10878	10805
Helitron-8_AP	100.000	72	24995450	24995521	10878	10807
Helitron-8_AP	98.611	72	24997197	24997268	10878	10807
Helitron-8_AP	98.611	72	24998950	24999021	10878	10807
Helitron-8_AP	100.000	72	25000808	25000879	10878	10807
Helitron-8_AP	98.649	74	25002185	25002258	10878	10805
Helitron-8_AP	97.222	72	25003295	25003366	10878	10807
Helitron-8_AP	98.649	74	25005438	25005511	10878	10805
Helitron-8_AP	100.000	72	25007925	25007996	10878	10807
Helitron-8_AP	98.649	74	25009432	25009505	10878	10805
Helitron-6_AP	94.444	90	25012126	25012215	11736	11647
Helitron-6_AP	95.556	90	25232968	25233057	11647	11736
Helitron-1_AP	88.889	126	25991291	25991411	1458	1582
Helitron-1_AP	93.600	125	26034638	26034762	1458	1582
Helitron-1_AP	92.632	95	27438781	27438875	1487	1581
Helitron-1_AP	88.776	98	27490484	27490581	1584	1487
Helitron-11_AP	98.571	70	28733684	28733753	8942	9011
Helitron-1_AP	88.136	118	29309700	29309814	1584	1467
Helitron-6_AP	94.186	86	29522429	29522514	11647	11732
Helitron-11_AP	100.000	68	29524130	29524197	8944	9011
Helitron-11_AP	95.652	69	29525586	29525653	8944	9011
Helitron-11_AP	95.714	70	29527759	29527827	8944	9011
Helitron-11_AP	98.529	68	29529784	29529851	8944	9011

Helitron-11_AP	100.000	68	29531457	29531524	8944	9011
Helitron-11_AP	98.529	68	29533241	29533308	8944	9011
Helitron-11_AP	98.529	68	29534676	29534743	8944	9011
Helitron-6_AP	98.889	90	29536420	29536509	11647	11736
Helitron-6_AP	96.703	91	29537272	29537362	11646	11736
Helitron-6_AP	97.826	92	29538325	29538416	11646	11736
Helitron-6_AP	96.703	91	29539100	29539190	11646	11736
Helitron-8_AP	98.611	72	30091800	30091871	10878	10807
Helitron-8_AP	98.611	72	30093537	30093608	10878	10807
Helitron-6_AP	97.802	91	30094964	30095054	11736	11646
Helitron-8_AP	98.649	74	30096380	30096453	10878	10805
Helitron-8_AP	98.611	72	30097960	30098031	10878	10807
Helitron-8_AP	98.611	72	30099111	30099182	10878	10807
Helitron-6_AP	97.802	91	30101066	30101156	11736	11646
