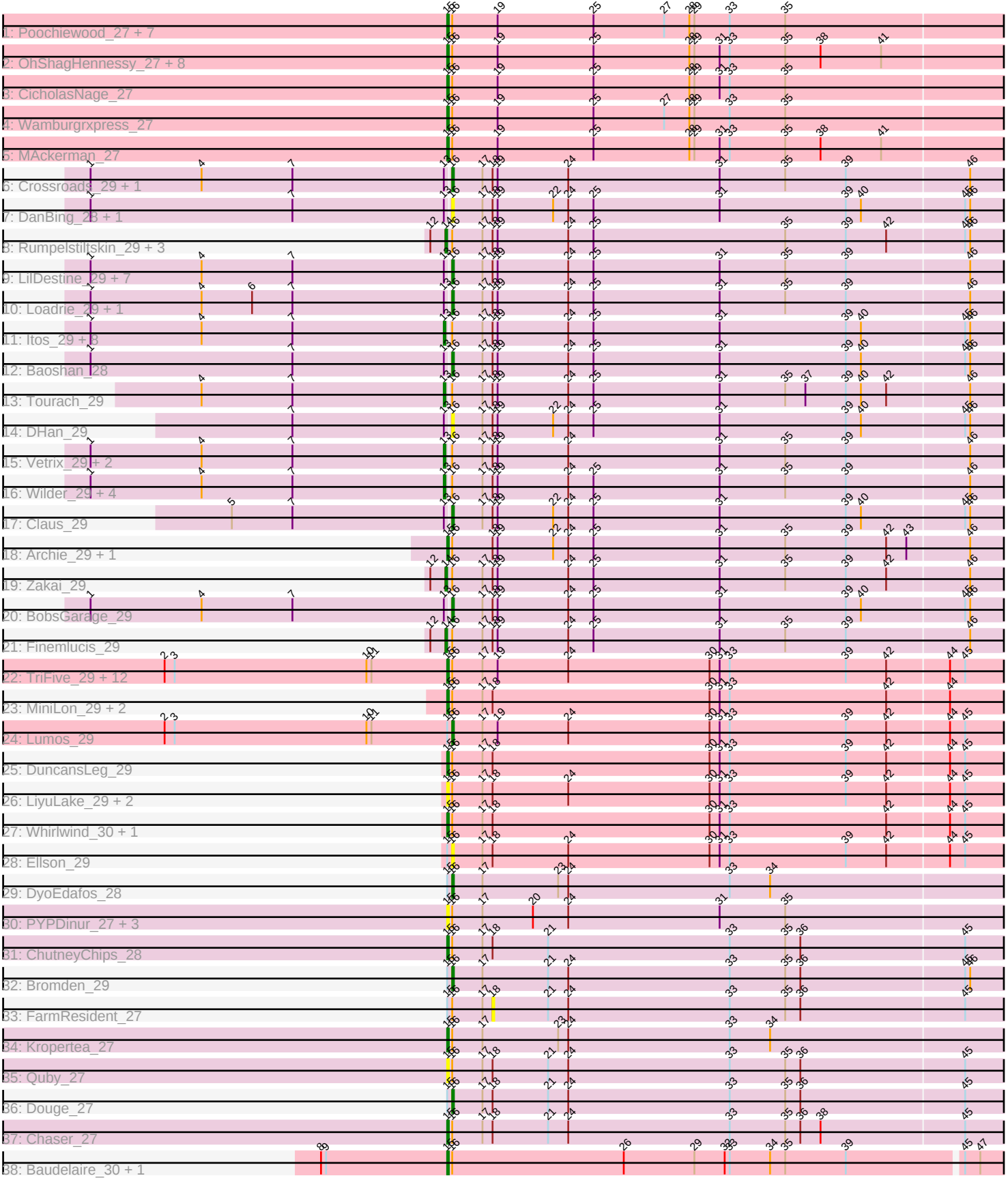


Zoomed Pham 313333



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 313333 Report

This analysis was run 09/05/26 on database version 662.

Pham number 313333 has 102 members, 24 are drafts.

Phages represented in each track:

- Track 1 : Poochiewood_27, AvadaKedavra_27, Tyson_27, Halena_27, Wyatt2_27, Rose5_27, Acquire49_27, Silverleaf_27
- Track 2 : OhShagHennessy_27, Calm_27, Zaria_27, Enceladus_27, Appletree2_27, UPIE_27, DirkDirk_27, JoeDirt_27, LeBron_27
- Track 3 : CicholasNage_27
- Track 4 : Wamburgxpress_27
- Track 5 : MAckerman_27
- Track 6 : Crossroads_29, GuuelaD_29
- Track 7 : DanBing_28, ZhongYanYuan_28
- Track 8 : Rumpelstiltskin_29, SoJulia_30, Rossetti_29, Gabriela_29
- Track 9 : LilDestine_29, Kahlid_29, Hafay_29, Sarshaun_29, ChengKai98_29, Wigglewiggle_29, Lynnae_29, Nicholasp3_29
- Track 10 : Loadrie_29, OverPar_29
- Track 11 : Itos_29, Breezona_29, BigCheese_29, Winky_29, Netyap_29, Faith1_29, DrSeegs_29, Molivier_29, Miley16_29
- Track 12 : Baoshan_28
- Track 13 : Tourach_29
- Track 14 : DHan_29
- Track 15 : Vetrix_29, Hiraya_29, Lewan_29
- Track 16 : Wilder_29, Underpass_29, Soap141_29, MkaliMitinis3_29, Gardann_29
- Track 17 : Claus_29
- Track 18 : Archie_29, Bazzle_29
- Track 19 : Zakai_29
- Track 20 : BobsGarage_29
- Track 21 : Finemlucis_29
- Track 22 : TriFive_29, Samty_29, Nicholas_29, Red305_29, Snenia_29, Bellis_29, Clautastrophe_29, Jubie_29, Finnry_29, Moostard_29, Kingsolomon_29, MsGreen_29, Jobypre_29
- Track 23 : MiniLon_29, MiniMac_29, Lolly9_29
- Track 24 : Lumos_29
- Track 25 : DuncansLeg_29
- Track 26 : LiyuLake_29, BourbonZero_28, KirDoubleO7_27
- Track 27 : Whirlwind_30, Krypton555_29
- Track 28 : Ellson_29
- Track 29 : DyoEdafos_28
- Track 30 : PYPDinur_27, Douzhi_27, BrainDrainer_28, Sheng711_27
- Track 31 : ChutneyChips_28

- Track 32 : Bromden_29
- Track 33 : FarmResident_27
- Track 34 : Kropertea_27
- Track 35 : Quby_27
- Track 36 : Douge_27
- Track 37 : Chaser_27
- Track 38 : Baudelaire_30, Aegeus_30

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 15, it was called in 44 of the 78 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acquire49_27, Aegeus_30, Appletree2_27, Archie_29, AvadaKedavra_27, Baudelaire_30, Bazzle_29, Bellis_29, BourbonZero_28, BrainDrainer_28, Calm_27, Chaser_27, ChutneyChips_28, CicholasNage_27, Clautastrophe_29, DirkDirk_27, Douzhi_27, DuncansLeg_29, Enceladus_27, Finnry_29, Halena_27, Jobypre_29, JoeDirt_27, Jubie_29, Kingsolomon_29, KirDoubleO7_27, Kropertea_27, Krypton555_29, LeBron_27, LiyuLake_29, Lolly9_29, MACKerman_27, MiniLon_29, MiniMac_29, Moostard_29, MsGreen_29, Nicholas_29, OhShagHennessy_27, PYPDinur_27, Poochiewood_27, Quby_27, Red305_29, Rose5_27, Samty_29, Sheng711_27, Silverleaf_27, Snenia_29, TriFive_29, Tyson_27, UPIE_27, Wamburgxpress_27, Whirlwind_30, Wyatt2_27, Zaria_27,

Genes that have the "Most Annotated" start but do not call it:

- Bromden_29, Douge_27, DyoEdafos_28, Ellson_29, FarmResident_27, Lumos_29,

Genes that do not have the "Most Annotated" start:

- Baoshan_28, BigCheese_29, BobsGarage_29, Breezona_29, ChengKai98_29, Claus_29, Crossroads_29, DHan_29, DanBing_28, DrSeegs_29, Faith1_29, FinemLucis_29, Gabriela_29, Gardann_29, GuuelaD_29, Hafay_29, Hiraya_29, Itos_29, Kahlid_29, Lewan_29, LilDestine_29, Loadrie_29, Lynnae_29, Miley16_29, MkaliMitinis3_29, Molivier_29, Netyap_29, Nicholasp3_29, OverPar_29, Rossetti_29, Rumpelstiltskin_29, Sarshaun_29, SoJulia_30, Soap141_29, Tourach_29, Underpass_29, Vetrix_29, Wigglewiggle_29, Wilder_29, Winky_29, Zakai_29, ZhongYanYuan_28,

Summary by start number:

Start 13:

- Found in 36 of 102 (35.3%) of genes in pham
- Manual Annotations of this start: 15 of 78
- Called 50.0% of time when present
- Phage (with cluster) where this start called: BigCheese_29 (L2), Breezona_29 (L2), DrSeegs_29 (L2), Faith1_29 (L2), Gardann_29 (L2), Hiraya_29 (L2), Itos_29 (L2), Lewan_29 (L2), Miley16_29 (L2), MkaliMitinis3_29 (L2), Molivier_29 (L2), Netyap_29 (L2), Soap141_29 (L2), Tourach_29 (L2), Underpass_29 (L2), Vetrix_29 (L2), Wilder_29 (L2), Winky_29 (L2),

Start 14:

- Found in 6 of 102 (5.9%) of genes in pham
- Manual Annotations of this start: 4 of 78
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Finemlucis_29 (L2), Gabriela_29 (L2), Rossetti_29 (L2), Rumpelstiltskin_29 (L2), SoJulia_30 (L2), Zakai_29 (L2),

Start 15:

- Found in 60 of 102 (58.8%) of genes in pham
- Manual Annotations of this start: 44 of 78
- Called 90.0% of time when present
- Phage (with cluster) where this start called: Acquire49_27 (L1), Aegeus_30 (L5), Appletree2_27 (L1), Archie_29 (L2), AvadaKedavra_27 (L1), Baudelaire_30 (L5), Bazzle_29 (L2), Bellis_29 (L3), BourbonZero_28 (L3), BrainDrainer_28 (L4), Calm_27 (L1), Chaser_27 (L4), ChutneyChips_28 (L4), CicholasNage_27 (L1), Clautastrophe_29 (L3), DirkDirk_27 (L1), Douzhi_27 (L4), DuncansLeg_29 (L3), Enceladus_27 (L1), Finnry_29 (L3), Halena_27 (L1), Jobypre_29 (L3), JoeDirt_27 (L1), Jubie_29 (L3), Kingsolomon_29 (L3), KirDoubleO7_27 (L3), Kropertea_27 (L4), Krypton555_29 (L3), LeBron_27 (L1), LiyuLake_29 (L3), Lolly9_29 (L3), MAckerman_27 (L1), MiniLon_29 (L3), MiniMac_29 (L3), Moostard_29 (L3), MsGreen_29 (L3), Nicholas_29 (L3), OhShagHennessy_27 (L1), PYPDinur_27 (L4), Poochiewood_27 (L1), Quby_27 (L4), Red305_29 (L3), Rose5_27 (L1), Samty_29 (L3), Sheng711_27 (L4), Silverleaf_27 (L1), Snenia_29 (L3), TriFive_29 (L3), Tyson_27 (L1), UPIE_27 (L1), Wamburgxpress_27 (L1), Whirlwind_30 (L3), Wyatt2_27 (L1), Zaria_27 (L1),

Start 16:

- Found in 102 of 102 (100.0%) of genes in pham
- Manual Annotations of this start: 15 of 78
- Called 22.5% of time when present
- Phage (with cluster) where this start called: Baoshan_28 (L2), BobsGarage_29 (L2), Bromden_29 (L4), ChengKai98_29 (L2), Claus_29 (L2), Crossroads_29 (L2), DHan_29 (L2), DanBing_28 (L2), Douge_27 (L4), DyoEdafos_28 (L4), Elson_29 (L3), GuuelaD_29 (L2), Hafay_29 (L2), Kahlid_29 (L2), LilDestine_29 (L2), Loadrie_29 (L2), Lumos_29 (L3), Lynnae_29 (L2), Nicholasp3_29 (L2), OverPar_29 (L2), Sarshaun_29 (L2), Wigglewiggles_29 (L2), ZhongYanYuan_28 (L2),

Start 18:

- Found in 59 of 102 (57.8%) of genes in pham
- No Manual Annotations of this start.
- Called 1.7% of time when present
- Phage (with cluster) where this start called: FarmResident_27 (L4),

Summary by clusters:

There are 5 clusters represented in this pham: L4, L5, L2, L3, L1,

Info for manual annotations of cluster L1:

- Start number 15 was manually annotated 19 times for cluster L1.

Info for manual annotations of cluster L2:

- Start number 13 was manually annotated 15 times for cluster L2.
- Start number 14 was manually annotated 4 times for cluster L2.

- Start number 15 was manually annotated 2 times for cluster L2.
- Start number 16 was manually annotated 11 times for cluster L2.

Info for manual annotations of cluster L3:

- Start number 15 was manually annotated 18 times for cluster L3.
- Start number 16 was manually annotated 1 time for cluster L3.

Info for manual annotations of cluster L4:

- Start number 15 was manually annotated 3 times for cluster L4.
- Start number 16 was manually annotated 3 times for cluster L4.

Info for manual annotations of cluster L5:

- Start number 15 was manually annotated 2 times for cluster L5.

Gene Information:

Gene: Acquire49_27 Start: 26579, Stop: 27022, Start Num: 15

Candidate Starts for Acquire49_27:

(Start: 15 @26579 has 44 MA's), (Start: 16 @26582 has 15 MA's), (19, 26609), (25, 26666), (27, 26708), (28, 26723), (29, 26726), (33, 26747), (35, 26780),

Gene: Aegeus_30 Start: 26730, Stop: 27143, Start Num: 15

Candidate Starts for Aegeus_30:

(8, 26655), (9, 26658), (Start: 15 @26730 has 44 MA's), (Start: 16 @26733 has 15 MA's), (26, 26835), (29, 26877), (32, 26895), (33, 26898), (34, 26922), (35, 26931), (39, 26967), (45, 27033), (47, 27042), (48, 27057), (53, 27078), (56, 27096),

Gene: Appletree2_27 Start: 26522, Stop: 26965, Start Num: 15

Candidate Starts for Appletree2_27:

(Start: 15 @26522 has 44 MA's), (Start: 16 @26525 has 15 MA's), (19, 26552), (25, 26609), (28, 26666), (29, 26669), (31, 26684), (33, 26690), (35, 26723), (38, 26744), (41, 26780), (55, 26879), (58, 26897),

Gene: Archie_29 Start: 27765, Stop: 28241, Start Num: 15

Candidate Starts for Archie_29:

(Start: 15 @27765 has 44 MA's), (Start: 16 @27768 has 15 MA's), (18, 27792), (19, 27795), (22, 27828), (24, 27837), (25, 27852), (31, 27927), (35, 27966), (39, 28002), (42, 28026), (43, 28038), (46, 28074), (50, 28116), (61, 28224),

Gene: AvadaKedavra_27 Start: 26589, Stop: 27032, Start Num: 15

Candidate Starts for AvadaKedavra_27:

(Start: 15 @26589 has 44 MA's), (Start: 16 @26592 has 15 MA's), (19, 26619), (25, 26676), (27, 26718), (28, 26733), (29, 26736), (33, 26757), (35, 26790),

Gene: Baoshan_28 Start: 27103, Stop: 27573, Start Num: 16

Candidate Starts for Baoshan_28:

(1, 26890), (7, 27010), (Start: 13 @27100 has 15 MA's), (Start: 16 @27103 has 15 MA's), (17, 27121), (18, 27127), (19, 27130), (24, 27172), (25, 27187), (31, 27262), (39, 27337), (40, 27346), (45, 27406), (46, 27409), (50, 27451), (61, 27556),

Gene: Baudelaire_30 Start: 26730, Stop: 27143, Start Num: 15

Candidate Starts for Baudelaire_30:

(8, 26655), (9, 26658), (Start: 15 @26730 has 44 MA's), (Start: 16 @26733 has 15 MA's), (26, 26835), (29, 26877), (32, 26895), (33, 26898), (34, 26922), (35, 26931), (39, 26967), (45, 27033), (47, 27042), (48, 27057), (53, 27078), (56, 27096),

Gene: Bazzle_29 Start: 27514, Stop: 27990, Start Num: 15

Candidate Starts for Bazzle_29:

(Start: 15 @27514 has 44 MA's), (Start: 16 @27517 has 15 MA's), (18, 27541), (19, 27544), (22, 27577), (24, 27586), (25, 27601), (31, 27676), (35, 27715), (39, 27751), (42, 27775), (43, 27787), (46, 27823), (50, 27865), (61, 27973),

Gene: Bellis_29 Start: 27910, Stop: 28374, Start Num: 15

Candidate Starts for Bellis_29:

(2, 27742), (3, 27748), (10, 27862), (11, 27865), (Start: 15 @27910 has 44 MA's), (Start: 16 @27913 has 15 MA's), (17, 27931), (19, 27940), (24, 27982), (30, 28066), (31, 28072), (33, 28078), (39, 28147), (42, 28171), (44, 28207), (45, 28216), (61, 28342),

Gene: BigCheese_29 Start: 27279, Stop: 27752, Start Num: 13

Candidate Starts for BigCheese_29:

(1, 27069), (4, 27135), (7, 27189), (Start: 13 @27279 has 15 MA's), (Start: 16 @27282 has 15 MA's), (17, 27300), (18, 27306), (19, 27309), (24, 27351), (25, 27366), (31, 27441), (39, 27516), (40, 27525), (45, 27585), (46, 27588), (50, 27630), (61, 27735),

Gene: BobsGarage_29 Start: 27282, Stop: 27752, Start Num: 16

Candidate Starts for BobsGarage_29:

(1, 27069), (4, 27135), (7, 27189), (Start: 13 @27279 has 15 MA's), (Start: 16 @27282 has 15 MA's), (17, 27300), (18, 27306), (19, 27309), (24, 27351), (25, 27366), (31, 27441), (39, 27516), (40, 27525), (45, 27585), (46, 27588), (50, 27630), (61, 27735),

Gene: BourbonZero_28 Start: 27867, Stop: 28322, Start Num: 15

Candidate Starts for BourbonZero_28:

(Start: 15 @27867 has 44 MA's), (Start: 16 @27870 has 15 MA's), (17, 27888), (18, 27894), (24, 27939), (30, 28023), (31, 28029), (33, 28035), (39, 28104), (42, 28128), (44, 28164), (45, 28173), (61, 28290),

Gene: BrainDrainer_28 Start: 26508, Stop: 26984, Start Num: 15

Candidate Starts for BrainDrainer_28:

(Start: 15 @26508 has 44 MA's), (Start: 16 @26511 has 15 MA's), (17, 26529), (20, 26559), (24, 26580), (31, 26670), (35, 26709), (51, 26859), (58, 26889),

Gene: Breezona_29 Start: 27279, Stop: 27752, Start Num: 13

Candidate Starts for Breezona_29:

(1, 27069), (4, 27135), (7, 27189), (Start: 13 @27279 has 15 MA's), (Start: 16 @27282 has 15 MA's), (17, 27300), (18, 27306), (19, 27309), (24, 27351), (25, 27366), (31, 27441), (39, 27516), (40, 27525), (45, 27585), (46, 27588), (50, 27630), (61, 27735),

Gene: Bromden_29 Start: 26939, Stop: 27391, Start Num: 16

Candidate Starts for Bromden_29:

(Start: 15 @26936 has 44 MA's), (Start: 16 @26939 has 15 MA's), (17, 26957), (21, 26996), (24, 27008), (33, 27104), (35, 27137), (36, 27146), (45, 27242), (46, 27245), (52, 27290), (58, 27317),

Gene: Calm_27 Start: 26593, Stop: 27036, Start Num: 15

Candidate Starts for Calm_27:

(Start: 15 @26593 has 44 MA's), (Start: 16 @26596 has 15 MA's), (19, 26623), (25, 26680), (28, 26737), (29, 26740), (31, 26755), (33, 26761), (35, 26794), (38, 26815), (41, 26851), (55, 26950), (58, 26968),

Gene: Chaser_27 Start: 26350, Stop: 26802, Start Num: 15

Candidate Starts for Chaser_27:

(Start: 15 @26350 has 44 MA's), (Start: 16 @26353 has 15 MA's), (17, 26371), (18, 26377), (21, 26410), (24, 26422), (33, 26518), (35, 26551), (36, 26560), (38, 26572), (45, 26656), (53, 26704), (54, 26710), (59, 26734),

Gene: ChengKai98_29 Start: 27284, Stop: 27754, Start Num: 16

Candidate Starts for ChengKai98_29:

(1, 27071), (4, 27137), (7, 27191), (Start: 13 @27281 has 15 MA's), (Start: 16 @27284 has 15 MA's), (17, 27302), (18, 27308), (19, 27311), (24, 27353), (25, 27368), (31, 27443), (35, 27482), (39, 27518), (46, 27590), (50, 27632), (57, 27662), (61, 27737),

Gene: ChutneyChips_28 Start: 26533, Stop: 26985, Start Num: 15

Candidate Starts for ChutneyChips_28:

(Start: 15 @26533 has 44 MA's), (Start: 16 @26536 has 15 MA's), (17, 26554), (18, 26560), (21, 26593), (33, 26701), (35, 26734), (36, 26743), (45, 26839), (54, 26893), (59, 26917), (60, 26938),

Gene: CicholasNage_27 Start: 26581, Stop: 27024, Start Num: 15

Candidate Starts for CicholasNage_27:

(Start: 15 @26581 has 44 MA's), (Start: 16 @26584 has 15 MA's), (19, 26611), (25, 26668), (28, 26725), (29, 26728), (31, 26743), (33, 26749), (35, 26782),

Gene: Claus_29 Start: 27259, Stop: 27729, Start Num: 16

Candidate Starts for Claus_29:

(5, 27130), (7, 27166), (Start: 13 @27256 has 15 MA's), (Start: 16 @27259 has 15 MA's), (17, 27277), (18, 27283), (19, 27286), (22, 27319), (24, 27328), (25, 27343), (31, 27418), (39, 27493), (40, 27502), (45, 27562), (46, 27565), (50, 27607), (61, 27712),

Gene: Clautastrophe_29 Start: 27907, Stop: 28371, Start Num: 15

Candidate Starts for Clautastrophe_29:

(2, 27739), (3, 27745), (10, 27859), (11, 27862), (Start: 15 @27907 has 44 MA's), (Start: 16 @27910 has 15 MA's), (17, 27928), (19, 27937), (24, 27979), (30, 28063), (31, 28069), (33, 28075), (39, 28144), (42, 28168), (44, 28204), (45, 28213), (61, 28339),

Gene: Crossroads_29 Start: 27282, Stop: 27752, Start Num: 16

Candidate Starts for Crossroads_29:

(1, 27069), (4, 27135), (7, 27189), (Start: 13 @27279 has 15 MA's), (Start: 16 @27282 has 15 MA's), (17, 27300), (18, 27306), (19, 27309), (24, 27351), (31, 27441), (35, 27480), (39, 27516), (46, 27588), (50, 27630), (57, 27660), (61, 27735),

Gene: DHan_29 Start: 27195, Stop: 27665, Start Num: 16

Candidate Starts for DHan_29:

(7, 27102), (Start: 13 @27192 has 15 MA's), (Start: 16 @27195 has 15 MA's), (17, 27213), (18, 27219), (19, 27222), (22, 27255), (24, 27264), (25, 27279), (31, 27354), (39, 27429), (40, 27438), (45, 27498), (46, 27501), (50, 27543), (61, 27648),

Gene: DanBing_28 Start: 27099, Stop: 27569, Start Num: 16

Candidate Starts for DanBing_28:

(1, 26886), (7, 27006), (Start: 13 @27096 has 15 MA's), (Start: 16 @27099 has 15 MA's), (17, 27117), (18, 27123), (19, 27126), (22, 27159), (24, 27168), (25, 27183), (31, 27258), (39, 27333), (40, 27342), (45, 27402), (46, 27405), (50, 27447), (61, 27552),

Gene: DirkDirk_27 Start: 26562, Stop: 27005, Start Num: 15

Candidate Starts for DirkDirk_27:

(Start: 15 @26562 has 44 MA's), (Start: 16 @26565 has 15 MA's), (19, 26592), (25, 26649), (28, 26706), (29, 26709), (31, 26724), (33, 26730), (35, 26763), (38, 26784), (41, 26820), (55, 26919), (58, 26937),

Gene: Douge_27 Start: 26291, Stop: 26740, Start Num: 16

Candidate Starts for Douge_27:

(Start: 15 @26288 has 44 MA's), (Start: 16 @26291 has 15 MA's), (17, 26309), (18, 26315), (21, 26348), (24, 26360), (33, 26456), (35, 26489), (36, 26498), (45, 26594), (54, 26648), (59, 26672),

Gene: Douzhi_27 Start: 26369, Stop: 26845, Start Num: 15

Candidate Starts for Douzhi_27:

(Start: 15 @26369 has 44 MA's), (Start: 16 @26372 has 15 MA's), (17, 26390), (20, 26420), (24, 26441), (31, 26531), (35, 26570), (51, 26720), (58, 26750),

Gene: DrSeegs_29 Start: 27279, Stop: 27752, Start Num: 13

Candidate Starts for DrSeegs_29:

(1, 27069), (4, 27135), (7, 27189), (Start: 13 @27279 has 15 MA's), (Start: 16 @27282 has 15 MA's), (17, 27300), (18, 27306), (19, 27309), (24, 27351), (25, 27366), (31, 27441), (39, 27516), (40, 27525), (45, 27585), (46, 27588), (50, 27630), (61, 27735),

Gene: DuncansLeg_29 Start: 27890, Stop: 28345, Start Num: 15

Candidate Starts for DuncansLeg_29:

(Start: 15 @27890 has 44 MA's), (Start: 16 @27893 has 15 MA's), (17, 27911), (18, 27917), (30, 28046), (31, 28052), (33, 28058), (39, 28127), (42, 28151), (44, 28187), (45, 28196), (61, 28313),

Gene: DyoEdafos_28 Start: 26498, Stop: 26944, Start Num: 16

Candidate Starts for DyoEdafos_28:

(Start: 15 @26495 has 44 MA's), (Start: 16 @26498 has 15 MA's), (17, 26516), (23, 26561), (24, 26567), (33, 26663), (34, 26687), (51, 26846), (58, 26876),

Gene: Ellson_29 Start: 27880, Stop: 28332, Start Num: 16

Candidate Starts for Ellson_29:

(Start: 15 @27877 has 44 MA's), (Start: 16 @27880 has 15 MA's), (17, 27898), (18, 27904), (24, 27949), (30, 28033), (31, 28039), (33, 28045), (39, 28114), (42, 28138), (44, 28174), (45, 28183), (61, 28300),

Gene: Enceladus_27 Start: 26563, Stop: 27006, Start Num: 15

Candidate Starts for Enceladus_27:

(Start: 15 @26563 has 44 MA's), (Start: 16 @26566 has 15 MA's), (19, 26593), (25, 26650), (28, 26707), (29, 26710), (31, 26725), (33, 26731), (35, 26764), (38, 26785), (41, 26821), (55, 26920), (58, 26938),

Gene: Faith1_29 Start: 27279, Stop: 27752, Start Num: 13

Candidate Starts for Faith1_29:

(1, 27069), (4, 27135), (7, 27189), (Start: 13 @27279 has 15 MA's), (Start: 16 @27282 has 15 MA's), (17, 27300), (18, 27306), (19, 27309), (24, 27351), (25, 27366), (31, 27441), (39, 27516), (40, 27525), (45, 27585), (46, 27588), (50, 27630), (61, 27735),

Gene: FarmResident_27 Start: 26359, Stop: 26784, Start Num: 18

Candidate Starts for FarmResident_27:

(Start: 15 @26332 has 44 MA's), (Start: 16 @26335 has 15 MA's), (17, 26353), (18, 26359), (21, 26392), (24, 26404), (33, 26500), (35, 26533), (36, 26542), (45, 26638), (54, 26692), (59, 26716),

Gene: Finemlucis_29 Start: 27555, Stop: 28028, Start Num: 14

Candidate Starts for Finemlucis_29:

(12, 27546), (Start: 14 @27555 has 4 MA's), (Start: 16 @27558 has 15 MA's), (17, 27576), (18, 27582), (19, 27585), (24, 27627), (25, 27642), (31, 27717), (35, 27756), (39, 27792), (46, 27864), (50, 27906), (57, 27936), (61, 28011),

Gene: Finnry_29 Start: 27911, Stop: 28375, Start Num: 15

Candidate Starts for Finnry_29:

(2, 27743), (3, 27749), (10, 27863), (11, 27866), (Start: 15 @27911 has 44 MA's), (Start: 16 @27914 has 15 MA's), (17, 27932), (19, 27941), (24, 27983), (30, 28067), (31, 28073), (33, 28079), (39, 28148), (42, 28172), (44, 28208), (45, 28217), (61, 28343),

Gene: Gabriela_29 Start: 27547, Stop: 28014, Start Num: 14

Candidate Starts for Gabriela_29:

(12, 27538), (Start: 14 @27547 has 4 MA's), (Start: 16 @27550 has 15 MA's), (17, 27568), (18, 27574), (19, 27577), (24, 27619), (25, 27634), (35, 27748), (39, 27784), (42, 27808), (45, 27853), (46, 27856), (50, 27898), (57, 27928), (61, 27997),

Gene: Gardann_29 Start: 27281, Stop: 27754, Start Num: 13

Candidate Starts for Gardann_29:

(1, 27071), (4, 27137), (7, 27191), (Start: 13 @27281 has 15 MA's), (Start: 16 @27284 has 15 MA's), (17, 27302), (18, 27308), (19, 27311), (24, 27353), (25, 27368), (31, 27443), (35, 27482), (39, 27518), (46, 27590), (50, 27632), (57, 27662), (61, 27737),

Gene: GuuelaD_29 Start: 27316, Stop: 27786, Start Num: 16

Candidate Starts for GuuelaD_29:

(1, 27103), (4, 27169), (7, 27223), (Start: 13 @27313 has 15 MA's), (Start: 16 @27316 has 15 MA's), (17, 27334), (18, 27340), (19, 27343), (24, 27385), (31, 27475), (35, 27514), (39, 27550), (46, 27622), (50, 27664), (57, 27694), (61, 27769),

Gene: Hafay_29 Start: 27315, Stop: 27785, Start Num: 16

Candidate Starts for Hafay_29:

(1, 27102), (4, 27168), (7, 27222), (Start: 13 @27312 has 15 MA's), (Start: 16 @27315 has 15 MA's), (17, 27333), (18, 27339), (19, 27342), (24, 27384), (25, 27399), (31, 27474), (35, 27513), (39, 27549), (46, 27621), (50, 27663), (57, 27693), (61, 27768),

Gene: Halena_27 Start: 26590, Stop: 27033, Start Num: 15

Candidate Starts for Halena_27:

(Start: 15 @26590 has 44 MA's), (Start: 16 @26593 has 15 MA's), (19, 26620), (25, 26677), (27, 26719), (28, 26734), (29, 26737), (33, 26758), (35, 26791),

Gene: Hiraya_29 Start: 27279, Stop: 27752, Start Num: 13

Candidate Starts for Hiraya_29:

(1, 27069), (4, 27135), (7, 27189), (Start: 13 @27279 has 15 MA's), (Start: 16 @27282 has 15 MA's), (17, 27300), (18, 27306), (19, 27309), (24, 27351), (31, 27441), (35, 27480), (39, 27516), (46, 27588), (50, 27630), (57, 27660), (61, 27735),

Gene: Itos_29 Start: 27279, Stop: 27752, Start Num: 13

Candidate Starts for Itos_29:

(1, 27069), (4, 27135), (7, 27189), (Start: 13 @27279 has 15 MA's), (Start: 16 @27282 has 15 MA's), (17, 27300), (18, 27306), (19, 27309), (24, 27351), (25, 27366), (31, 27441), (39, 27516), (40, 27525), (45, 27585), (46, 27588), (50, 27630), (61, 27735),

Gene: Jobypre_29 Start: 27907, Stop: 28371, Start Num: 15

Candidate Starts for Jobypre_29:

(2, 27739), (3, 27745), (10, 27859), (11, 27862), (Start: 15 @27907 has 44 MA's), (Start: 16 @27910 has 15 MA's), (17, 27928), (19, 27937), (24, 27979), (30, 28063), (31, 28069), (33, 28075), (39, 28144), (42, 28168), (44, 28204), (45, 28213), (61, 28339),

Gene: JoeDirt_27 Start: 26561, Stop: 27004, Start Num: 15

Candidate Starts for JoeDirt_27:

(Start: 15 @26561 has 44 MA's), (Start: 16 @26564 has 15 MA's), (19, 26591), (25, 26648), (28, 26705), (29, 26708), (31, 26723), (33, 26729), (35, 26762), (38, 26783), (41, 26819), (55, 26918), (58, 26936),

Gene: Jubie_29 Start: 27908, Stop: 28372, Start Num: 15

Candidate Starts for Jubie_29:

(2, 27740), (3, 27746), (10, 27860), (11, 27863), (Start: 15 @27908 has 44 MA's), (Start: 16 @27911 has 15 MA's), (17, 27929), (19, 27938), (24, 27980), (30, 28064), (31, 28070), (33, 28076), (39, 28145), (42, 28169), (44, 28205), (45, 28214), (61, 28340),

Gene: Kahlid_29 Start: 27287, Stop: 27757, Start Num: 16

Candidate Starts for Kahlid_29:

(1, 27074), (4, 27140), (7, 27194), (Start: 13 @27284 has 15 MA's), (Start: 16 @27287 has 15 MA's), (17, 27305), (18, 27311), (19, 27314), (24, 27356), (25, 27371), (31, 27446), (35, 27485), (39, 27521), (46, 27593), (50, 27635), (57, 27665), (61, 27740),

Gene: Kingsolomon_29 Start: 27907, Stop: 28371, Start Num: 15

Candidate Starts for Kingsolomon_29:

(2, 27739), (3, 27745), (10, 27859), (11, 27862), (Start: 15 @27907 has 44 MA's), (Start: 16 @27910 has 15 MA's), (17, 27928), (19, 27937), (24, 27979), (30, 28063), (31, 28069), (33, 28075), (39, 28144), (42, 28168), (44, 28204), (45, 28213), (61, 28339),

Gene: KirDoubleO7_27 Start: 27899, Stop: 28354, Start Num: 15

Candidate Starts for KirDoubleO7_27:

(Start: 15 @27899 has 44 MA's), (Start: 16 @27902 has 15 MA's), (17, 27920), (18, 27926), (24, 27971), (30, 28055), (31, 28061), (33, 28067), (39, 28136), (42, 28160), (44, 28196), (45, 28205), (61, 28322),

Gene: Kropertea_27 Start: 26302, Stop: 26751, Start Num: 15

Candidate Starts for Kropertea_27:

(Start: 15 @26302 has 44 MA's), (Start: 16 @26305 has 15 MA's), (17, 26323), (23, 26368), (24, 26374), (33, 26470), (34, 26494), (51, 26653), (58, 26683),

Gene: Krypton555_29 Start: 27808, Stop: 28269, Start Num: 15

Candidate Starts for Krypton555_29:

(Start: 15 @27808 has 44 MA's), (Start: 16 @27811 has 15 MA's), (17, 27829), (18, 27835), (30, 27964), (31, 27970), (33, 27976), (42, 28069), (44, 28105), (45, 28114), (49, 28153), (61, 28237),

Gene: LeBron_27 Start: 26605, Stop: 27048, Start Num: 15

Candidate Starts for LeBron_27:

(Start: 15 @26605 has 44 MA's), (Start: 16 @26608 has 15 MA's), (19, 26635), (25, 26692), (28, 26749), (29, 26752), (31, 26767), (33, 26773), (35, 26806), (38, 26827), (41, 26863), (55, 26962), (58, 26980),

Gene: Lewan_29 Start: 27279, Stop: 27752, Start Num: 13

Candidate Starts for Lewan_29:

(1, 27069), (4, 27135), (7, 27189), (Start: 13 @27279 has 15 MA's), (Start: 16 @27282 has 15 MA's), (17, 27300), (18, 27306), (19, 27309), (24, 27351), (31, 27441), (35, 27480), (39, 27516), (46, 27588), (50, 27630), (57, 27660), (61, 27735),

Gene: LilDestine_29 Start: 27281, Stop: 27751, Start Num: 16

Candidate Starts for LilDestine_29:

(1, 27068), (4, 27134), (7, 27188), (Start: 13 @27278 has 15 MA's), (Start: 16 @27281 has 15 MA's), (17, 27299), (18, 27305), (19, 27308), (24, 27350), (25, 27365), (31, 27440), (35, 27479), (39, 27515), (46, 27587), (50, 27629), (57, 27659), (61, 27734),

Gene: LiyuLake_29 Start: 27869, Stop: 28324, Start Num: 15

Candidate Starts for LiyuLake_29:

(Start: 15 @27869 has 44 MA's), (Start: 16 @27872 has 15 MA's), (17, 27890), (18, 27896), (24, 27941), (30, 28025), (31, 28031), (33, 28037), (39, 28106), (42, 28130), (44, 28166), (45, 28175), (61, 28292),

Gene: Loadrie_29 Start: 27314, Stop: 27784, Start Num: 16

Candidate Starts for Loadrie_29:

(1, 27101), (4, 27167), (6, 27197), (7, 27221), (Start: 13 @27311 has 15 MA's), (Start: 16 @27314 has 15 MA's), (17, 27332), (18, 27338), (19, 27341), (24, 27383), (25, 27398), (31, 27473), (35, 27512), (39, 27548), (46, 27620), (57, 27692), (61, 27767),

Gene: Lolly9_29 Start: 27674, Stop: 28135, Start Num: 15

Candidate Starts for Lolly9_29:

(Start: 15 @27674 has 44 MA's), (Start: 16 @27677 has 15 MA's), (17, 27695), (18, 27701), (30, 27830), (31, 27836), (33, 27842), (42, 27935), (44, 27971), (61, 28103),

Gene: Lumos_29 Start: 27907, Stop: 28368, Start Num: 16

Candidate Starts for Lumos_29:

(2, 27736), (3, 27742), (10, 27856), (11, 27859), (Start: 15 @27904 has 44 MA's), (Start: 16 @27907 has 15 MA's), (17, 27925), (19, 27934), (24, 27976), (30, 28060), (31, 28066), (33, 28072), (39, 28141), (42, 28165), (44, 28201), (45, 28210), (61, 28336),

Gene: Lynnae_29 Start: 27270, Stop: 27740, Start Num: 16

Candidate Starts for Lynnae_29:

(1, 27057), (4, 27123), (7, 27177), (Start: 13 @27267 has 15 MA's), (Start: 16 @27270 has 15 MA's), (17, 27288), (18, 27294), (19, 27297), (24, 27339), (25, 27354), (31, 27429), (35, 27468), (39, 27504), (46, 27576), (50, 27618), (57, 27648), (61, 27723),

Gene: MAckerman_27 Start: 26579, Stop: 27022, Start Num: 15

Candidate Starts for MAckerman_27:

(Start: 15 @26579 has 44 MA's), (Start: 16 @26582 has 15 MA's), (19, 26609), (25, 26666), (28, 26723), (29, 26726), (31, 26741), (33, 26747), (35, 26780), (38, 26801), (41, 26837), (58, 26954),

Gene: Miley16_29 Start: 27279, Stop: 27752, Start Num: 13

Candidate Starts for Miley16_29:

(1, 27069), (4, 27135), (7, 27189), (Start: 13 @27279 has 15 MA's), (Start: 16 @27282 has 15 MA's), (17, 27300), (18, 27306), (19, 27309), (24, 27351), (25, 27366), (31, 27441), (39, 27516), (40, 27525), (45, 27585), (46, 27588), (50, 27630), (61, 27735),

Gene: MiniLon_29 Start: 27674, Stop: 28135, Start Num: 15

Candidate Starts for MiniLon_29:

(Start: 15 @27674 has 44 MA's), (Start: 16 @27677 has 15 MA's), (17, 27695), (18, 27701), (30, 27830), (31, 27836), (33, 27842), (42, 27935), (44, 27971), (61, 28103),

Gene: MiniMac_29 Start: 27675, Stop: 28136, Start Num: 15

Candidate Starts for MiniMac_29:

(Start: 15 @27675 has 44 MA's), (Start: 16 @27678 has 15 MA's), (17, 27696), (18, 27702), (30, 27831), (31, 27837), (33, 27843), (42, 27936), (44, 27972), (61, 28104),

Gene: MkaliMitinis3_29 Start: 27279, Stop: 27752, Start Num: 13

Candidate Starts for MkaliMitinis3_29:

(1, 27069), (4, 27135), (7, 27189), (Start: 13 @27279 has 15 MA's), (Start: 16 @27282 has 15 MA's), (17, 27300), (18, 27306), (19, 27309), (24, 27351), (25, 27366), (31, 27441), (35, 27480), (39, 27516), (46, 27588), (50, 27630), (57, 27660), (61, 27735),

Gene: Molivier_29 Start: 27276, Stop: 27749, Start Num: 13

Candidate Starts for Molivier_29:

(1, 27066), (4, 27132), (7, 27186), (Start: 13 @27276 has 15 MA's), (Start: 16 @27279 has 15 MA's), (17, 27297), (18, 27303), (19, 27306), (24, 27348), (25, 27363), (31, 27438), (39, 27513), (40, 27522), (45, 27582), (46, 27585), (50, 27627), (61, 27732),

Gene: Moostard_29 Start: 27910, Stop: 28374, Start Num: 15

Candidate Starts for Moostard_29:

(2, 27742), (3, 27748), (10, 27862), (11, 27865), (Start: 15 @27910 has 44 MA's), (Start: 16 @27913 has 15 MA's), (17, 27931), (19, 27940), (24, 27982), (30, 28066), (31, 28072), (33, 28078), (39, 28147), (42, 28171), (44, 28207), (45, 28216), (61, 28342),

Gene: MsGreen_29 Start: 27907, Stop: 28371, Start Num: 15

Candidate Starts for MsGreen_29:

(2, 27739), (3, 27745), (10, 27859), (11, 27862), (Start: 15 @27907 has 44 MA's), (Start: 16 @27910 has 15 MA's), (17, 27928), (19, 27937), (24, 27979), (30, 28063), (31, 28069), (33, 28075), (39, 28144), (42, 28168), (44, 28204), (45, 28213), (61, 28339),

Gene: Netyap_29 Start: 27279, Stop: 27752, Start Num: 13

Candidate Starts for Netyap_29:

(1, 27069), (4, 27135), (7, 27189), (Start: 13 @27279 has 15 MA's), (Start: 16 @27282 has 15 MA's), (17, 27300), (18, 27306), (19, 27309), (24, 27351), (25, 27366), (31, 27441), (39, 27516), (40, 27525), (45, 27585), (46, 27588), (50, 27630), (61, 27735),

Gene: Nicholas_29 Start: 27907, Stop: 28371, Start Num: 15

Candidate Starts for Nicholas_29:

(2, 27739), (3, 27745), (10, 27859), (11, 27862), (Start: 15 @27907 has 44 MA's), (Start: 16 @27910 has 15 MA's), (17, 27928), (19, 27937), (24, 27979), (30, 28063), (31, 28069), (33, 28075), (39, 28144), (42, 28168), (44, 28204), (45, 28213), (61, 28339),

Gene: Nicholasp3_29 Start: 27284, Stop: 27754, Start Num: 16

Candidate Starts for Nicholasp3_29:

(1, 27071), (4, 27137), (7, 27191), (Start: 13 @27281 has 15 MA's), (Start: 16 @27284 has 15 MA's), (17, 27302), (18, 27308), (19, 27311), (24, 27353), (25, 27368), (31, 27443), (35, 27482), (39, 27518), (46, 27590), (50, 27632), (57, 27662), (61, 27737),

Gene: OhShagHennessy_27 Start: 26544, Stop: 26987, Start Num: 15

Candidate Starts for OhShagHennessy_27:

(Start: 15 @26544 has 44 MA's), (Start: 16 @26547 has 15 MA's), (19, 26574), (25, 26631), (28, 26688), (29, 26691), (31, 26706), (33, 26712), (35, 26745), (38, 26766), (41, 26802), (55, 26901), (58, 26919),

Gene: OverPar_29 Start: 27314, Stop: 27784, Start Num: 16

Candidate Starts for OverPar_29:

(1, 27101), (4, 27167), (6, 27197), (7, 27221), (Start: 13 @27311 has 15 MA's), (Start: 16 @27314 has 15 MA's), (17, 27332), (18, 27338), (19, 27341), (24, 27383), (25, 27398), (31, 27473), (35, 27512), (39, 27548), (46, 27620), (57, 27692), (61, 27767),

Gene: PYPDinur_27 Start: 26369, Stop: 26845, Start Num: 15

Candidate Starts for PYPDinur_27:

(Start: 15 @26369 has 44 MA's), (Start: 16 @26372 has 15 MA's), (17, 26390), (20, 26420), (24, 26441), (31, 26531), (35, 26570), (51, 26720), (58, 26750),

Gene: Poochiewood_27 Start: 26579, Stop: 27022, Start Num: 15

Candidate Starts for Poochiewood_27:

(Start: 15 @26579 has 44 MA's), (Start: 16 @26582 has 15 MA's), (19, 26609), (25, 26666), (27, 26708), (28, 26723), (29, 26726), (33, 26747), (35, 26780),

Gene: Quby_27 Start: 26287, Stop: 26739, Start Num: 15

Candidate Starts for Quby_27:

(Start: 15 @26287 has 44 MA's), (Start: 16 @26290 has 15 MA's), (17, 26308), (18, 26314), (21, 26347), (24, 26359), (33, 26455), (35, 26488), (36, 26497), (45, 26593), (54, 26647), (59, 26671),

Gene: Red305_29 Start: 27907, Stop: 28371, Start Num: 15

Candidate Starts for Red305_29:

(2, 27739), (3, 27745), (10, 27859), (11, 27862), (Start: 15 @27907 has 44 MA's), (Start: 16 @27910 has 15 MA's), (17, 27928), (19, 27937), (24, 27979), (30, 28063), (31, 28069), (33, 28075), (39, 28144), (42, 28168), (44, 28204), (45, 28213), (61, 28339),

Gene: Rose5_27 Start: 26579, Stop: 27022, Start Num: 15

Candidate Starts for Rose5_27:

(Start: 15 @26579 has 44 MA's), (Start: 16 @26582 has 15 MA's), (19, 26609), (25, 26666), (27, 26708), (28, 26723), (29, 26726), (33, 26747), (35, 26780),

Gene: Rossetti_29 Start: 27557, Stop: 28024, Start Num: 14

Candidate Starts for Rossetti_29:

(12, 27548), (Start: 14 @27557 has 4 MA's), (Start: 16 @27560 has 15 MA's), (17, 27578), (18, 27584), (19, 27587), (24, 27629), (25, 27644), (35, 27758), (39, 27794), (42, 27818), (45, 27863), (46, 27866), (50, 27908), (57, 27938), (61, 28007),

Gene: Rumpelstiltskin_29 Start: 27553, Stop: 28020, Start Num: 14

Candidate Starts for Rumpelstiltskin_29:

(12, 27544), (Start: 14 @27553 has 4 MA's), (Start: 16 @27556 has 15 MA's), (17, 27574), (18, 27580), (19, 27583), (24, 27625), (25, 27640), (35, 27754), (39, 27790), (42, 27814), (45, 27859), (46, 27862), (50, 27904), (57, 27934), (61, 28003),

Gene: Samty_29 Start: 27910, Stop: 28374, Start Num: 15

Candidate Starts for Samty_29:

(2, 27742), (3, 27748), (10, 27862), (11, 27865), (Start: 15 @27910 has 44 MA's), (Start: 16 @27913 has 15 MA's), (17, 27931), (19, 27940), (24, 27982), (30, 28066), (31, 28072), (33, 28078), (39, 28147), (42, 28171), (44, 28207), (45, 28216), (61, 28342),

Gene: Sarshaun_29 Start: 27315, Stop: 27785, Start Num: 16

Candidate Starts for Sarshaun_29:

(1, 27102), (4, 27168), (7, 27222), (Start: 13 @27312 has 15 MA's), (Start: 16 @27315 has 15 MA's), (17, 27333), (18, 27339), (19, 27342), (24, 27384), (25, 27399), (31, 27474), (35, 27513), (39, 27549), (46, 27621), (50, 27663), (57, 27693), (61, 27768),

Gene: Sheng711_27 Start: 26369, Stop: 26845, Start Num: 15

Candidate Starts for Sheng711_27:

(Start: 15 @26369 has 44 MA's), (Start: 16 @26372 has 15 MA's), (17, 26390), (20, 26420), (24, 26441), (31, 26531), (35, 26570), (51, 26720), (58, 26750),

Gene: Silverleaf_27 Start: 26579, Stop: 27022, Start Num: 15

Candidate Starts for Silverleaf_27:

(Start: 15 @26579 has 44 MA's), (Start: 16 @26582 has 15 MA's), (19, 26609), (25, 26666), (27, 26708), (28, 26723), (29, 26726), (33, 26747), (35, 26780),

Gene: Snenia_29 Start: 27908, Stop: 28372, Start Num: 15

Candidate Starts for Snenia_29:

(2, 27740), (3, 27746), (10, 27860), (11, 27863), (Start: 15 @27908 has 44 MA's), (Start: 16 @27911 has 15 MA's), (17, 27929), (19, 27938), (24, 27980), (30, 28064), (31, 28070), (33, 28076), (39, 28145), (42, 28169), (44, 28205), (45, 28214), (61, 28340),

Gene: SoJulia_30 Start: 27546, Stop: 28013, Start Num: 14

Candidate Starts for SoJulia_30:

(12, 27537), (Start: 14 @27546 has 4 MA's), (Start: 16 @27549 has 15 MA's), (17, 27567), (18, 27573), (19, 27576), (24, 27618), (25, 27633), (35, 27747), (39, 27783), (42, 27807), (45, 27852), (46, 27855), (50, 27897), (57, 27927), (61, 27996),

Gene: Soap141_29 Start: 27312, Stop: 27785, Start Num: 13

Candidate Starts for Soap141_29:

(1, 27102), (4, 27168), (7, 27222), (Start: 13 @27312 has 15 MA's), (Start: 16 @27315 has 15 MA's), (17, 27333), (18, 27339), (19, 27342), (24, 27384), (25, 27399), (31, 27474), (35, 27513), (39, 27549), (46, 27621), (50, 27663), (57, 27693), (61, 27768),

Gene: Tourach_29 Start: 27276, Stop: 27743, Start Num: 13

Candidate Starts for Tourach_29:

(4, 27132), (7, 27186), (Start: 13 @27276 has 15 MA's), (Start: 16 @27279 has 15 MA's), (17, 27297), (18, 27303), (19, 27306), (24, 27348), (25, 27363), (31, 27438), (35, 27477), (37, 27489), (39, 27513), (40, 27522), (42, 27537), (46, 27585), (50, 27627), (57, 27657), (61, 27726),

Gene: TriFive_29 Start: 27907, Stop: 28371, Start Num: 15

Candidate Starts for TriFive_29:

(2, 27739), (3, 27745), (10, 27859), (11, 27862), (Start: 15 @27907 has 44 MA's), (Start: 16 @27910 has 15 MA's), (17, 27928), (19, 27937), (24, 27979), (30, 28063), (31, 28069), (33, 28075), (39, 28144), (42, 28168), (44, 28204), (45, 28213), (61, 28339),

Gene: Tyson_27 Start: 26579, Stop: 27022, Start Num: 15

Candidate Starts for Tyson_27:

(Start: 15 @26579 has 44 MA's), (Start: 16 @26582 has 15 MA's), (19, 26609), (25, 26666), (27, 26708), (28, 26723), (29, 26726), (33, 26747), (35, 26780),

Gene: UPIE_27 Start: 26577, Stop: 27020, Start Num: 15

Candidate Starts for UPIE_27:

(Start: 15 @26577 has 44 MA's), (Start: 16 @26580 has 15 MA's), (19, 26607), (25, 26664), (28, 26721), (29, 26724), (31, 26739), (33, 26745), (35, 26778), (38, 26799), (41, 26835), (55, 26934), (58, 26952),

Gene: Underpass_29 Start: 27281, Stop: 27754, Start Num: 13

Candidate Starts for Underpass_29:

(1, 27071), (4, 27137), (7, 27191), (Start: 13 @27281 has 15 MA's), (Start: 16 @27284 has 15 MA's), (17, 27302), (18, 27308), (19, 27311), (24, 27353), (25, 27368), (31, 27443), (35, 27482), (39, 27518), (46, 27590), (50, 27632), (57, 27662), (61, 27737),

Gene: Vetrix_29 Start: 27285, Stop: 27758, Start Num: 13

Candidate Starts for Vetrix_29:

(1, 27075), (4, 27141), (7, 27195), (Start: 13 @27285 has 15 MA's), (Start: 16 @27288 has 15 MA's), (17, 27306), (18, 27312), (19, 27315), (24, 27357), (31, 27447), (35, 27486), (39, 27522), (46, 27594), (50, 27636), (57, 27666), (61, 27741),

Gene: Wamburgexpress_27 Start: 26592, Stop: 27035, Start Num: 15

Candidate Starts for Wamburgexpress_27:

(Start: 15 @26592 has 44 MA's), (Start: 16 @26595 has 15 MA's), (19, 26622), (25, 26679), (27, 26721), (28, 26736), (29, 26739), (33, 26760), (35, 26793), (55, 26949),

Gene: Whirlwind_30 Start: 27642, Stop: 28112, Start Num: 15

Candidate Starts for Whirlwind_30:

(Start: 15 @27642 has 44 MA's), (Start: 16 @27645 has 15 MA's), (17, 27663), (18, 27669), (30, 27798), (31, 27804), (33, 27810), (42, 27903), (44, 27939), (45, 27948), (49, 27987), (61, 28080),

Gene: Wigglewobble_29 Start: 27314, Stop: 27784, Start Num: 16

Candidate Starts for Wigglewobble_29:

(1, 27101), (4, 27167), (7, 27221), (Start: 13 @27311 has 15 MA's), (Start: 16 @27314 has 15 MA's), (17, 27332), (18, 27338), (19, 27341), (24, 27383), (25, 27398), (31, 27473), (35, 27512), (39, 27548), (46, 27620), (50, 27662), (57, 27692), (61, 27767),

Gene: Wilder_29 Start: 27284, Stop: 27757, Start Num: 13

Candidate Starts for Wilder_29:

(1, 27074), (4, 27140), (7, 27194), (Start: 13 @27284 has 15 MA's), (Start: 16 @27287 has 15 MA's), (17, 27305), (18, 27311), (19, 27314), (24, 27356), (25, 27371), (31, 27446), (35, 27485), (39, 27521), (46, 27593), (50, 27635), (57, 27665), (61, 27740),

Gene: Winky_29 Start: 27279, Stop: 27752, Start Num: 13

Candidate Starts for Winky_29:

(1, 27069), (4, 27135), (7, 27189), (Start: 13 @27279 has 15 MA's), (Start: 16 @27282 has 15 MA's), (17, 27300), (18, 27306), (19, 27309), (24, 27351), (25, 27366), (31, 27441), (39, 27516), (40, 27525), (45, 27585), (46, 27588), (50, 27630), (61, 27735),

Gene: Wyatt2_27 Start: 26579, Stop: 27022, Start Num: 15

Candidate Starts for Wyatt2_27:

(Start: 15 @26579 has 44 MA's), (Start: 16 @26582 has 15 MA's), (19, 26609), (25, 26666), (27, 26708), (28, 26723), (29, 26726), (33, 26747), (35, 26780),

Gene: Zakai_29 Start: 27541, Stop: 28008, Start Num: 14

Candidate Starts for Zakai_29:

(12, 27532), (Start: 14 @27541 has 4 MA's), (Start: 16 @27544 has 15 MA's), (17, 27562), (18, 27568), (19, 27571), (24, 27613), (25, 27628), (31, 27703), (35, 27742), (39, 27778), (42, 27802), (46, 27850), (50, 27892), (57, 27922), (61, 27991),

Gene: Zaria_27 Start: 26593, Stop: 27036, Start Num: 15

Candidate Starts for Zaria_27:

(Start: 15 @26593 has 44 MA's), (Start: 16 @26596 has 15 MA's), (19, 26623), (25, 26680), (28, 26737), (29, 26740), (31, 26755), (33, 26761), (35, 26794), (38, 26815), (41, 26851), (55, 26950), (58, 26968),

Gene: ZhongYanYuan_28 Start: 27103, Stop: 27573, Start Num: 16

Candidate Starts for ZhongYanYuan_28:

(1, 26890), (7, 27010), (Start: 13 @27100 has 15 MA's), (Start: 16 @27103 has 15 MA's), (17, 27121), (18, 27127), (19, 27130), (22, 27163), (24, 27172), (25, 27187), (31, 27262), (39, 27337), (40, 27346), (45, 27406), (46, 27409), (50, 27451), (61, 27556),