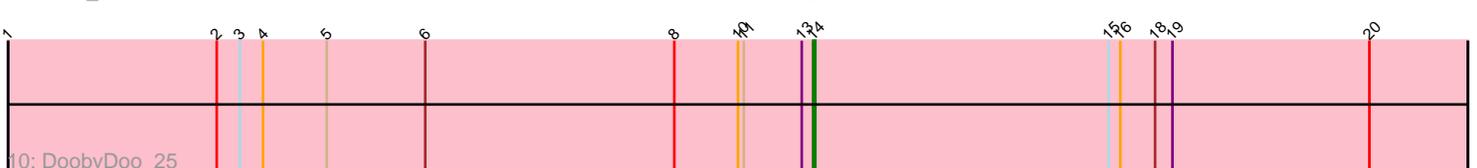
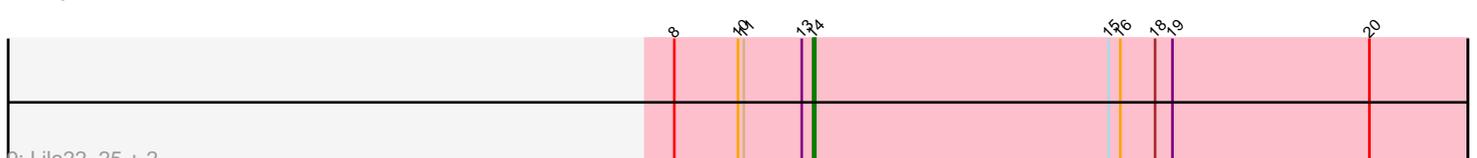
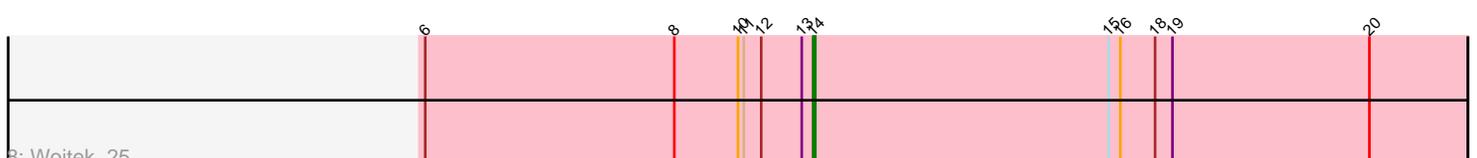
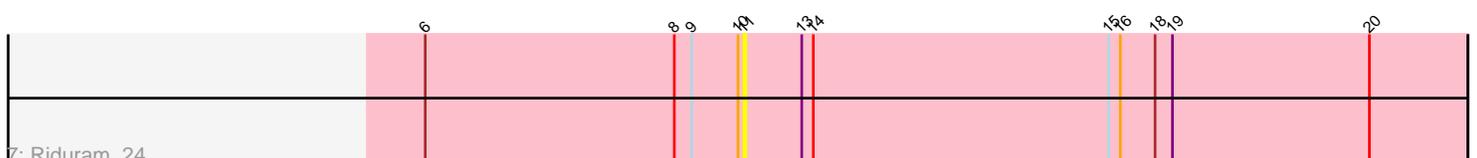
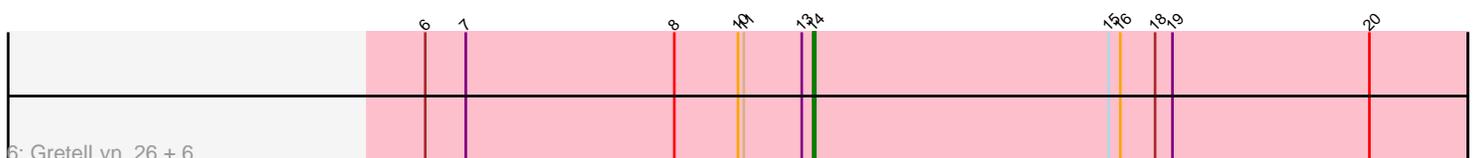
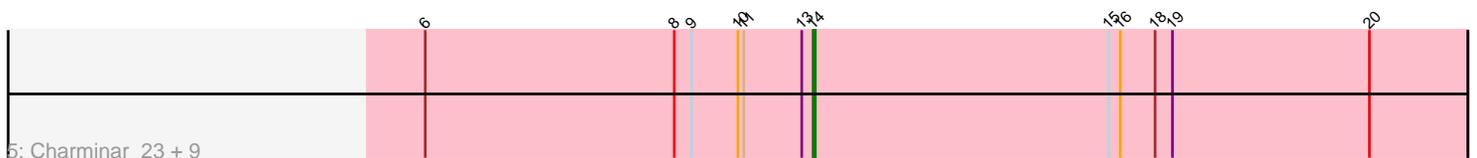
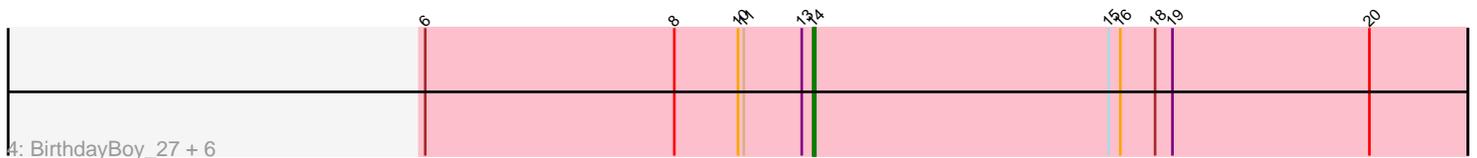
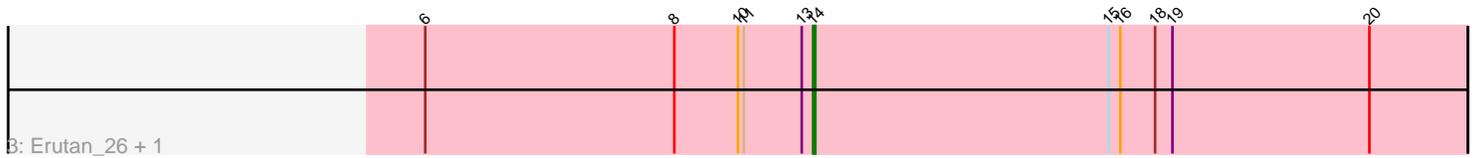
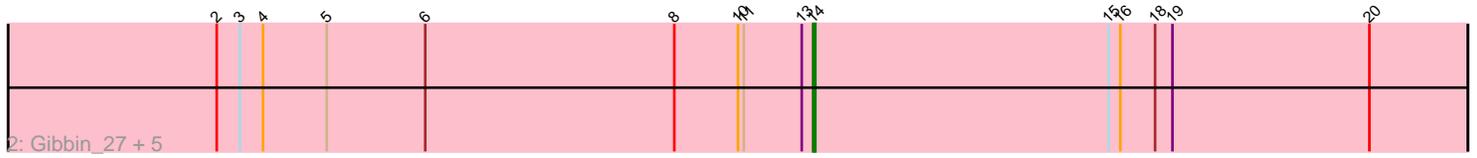
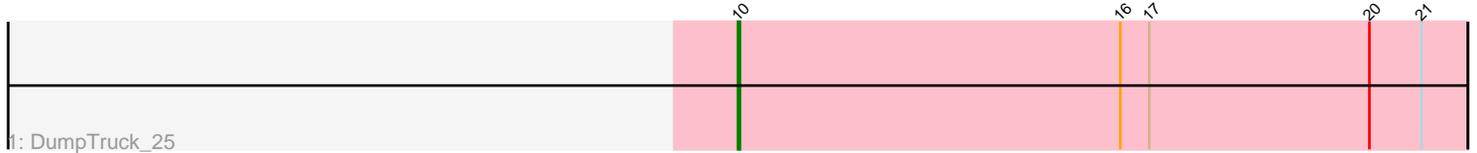


Pham 291333



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 291333 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291333 has 39 members, 6 are drafts.

Phages represented in each track:

- Track 1 : DumpTruck_25
- Track 2 : Gibbin_27, Mima20_24, Patos_27, NorManre_27, LavAbarElk_24, DaviePasture_26
- Track 3 : Erutan_26, Ranch_26
- Track 4 : BirthdayBoy_27, ParvusTarda_26, Fulcrum_27, MoiGyank_28, Lambo_26, Rota_25, GOATification_27
- Track 5 : Charminar_23, Genamy16_25, Alyssamiracle_25, Avian_23, Stormer_24, NovaSharks_25, Jamemuya19_23, Rumi_25, Astralis_23, RazorC_23
- Track 6 : GretelLyn_26, Rukungu_26, Yikes_27, Sadboi_26, OtterstedtS21_26, Alephilan_23, Zany_24
- Track 7 : Riduram_24
- Track 8 : Wojtek_25
- Track 9 : Lila22_25, Sampudon_26, Jalebi_25
- Track 10 : DoobyDoo_25

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

The start number called the most often in the published annotations is 14, it was called in 32 of the 33 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alephilan_23, Alyssamiracle_25, Astralis_23, Avian_23, BirthdayBoy_27, Charminar_23, DaviePasture_26, DoobyDoo_25, Erutan_26, Fulcrum_27, GOATification_27, Genamy16_25, Gibbin_27, GretelLyn_26, Jalebi_25, Jamemuya19_23, Lambo_26, LavAbarElk_24, Lila22_25, Mima20_24, MoiGyank_28, NorManre_27, NovaSharks_25, OtterstedtS21_26, ParvusTarda_26, Patos_27, Ranch_26, RazorC_23, Rota_25, Rukungu_26, Rumi_25, Sadboi_26, Sampudon_26, Stormer_24, Wojtek_25, Yikes_27, Zany_24,

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

- Riduram_24,

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

- DumpTruck_25,

Summary by start number:

Start 10:

- Found in 39 of 39 (100.0%) of genes in pham
- Manual Annotations of this start: 1 of 33
- Called 2.6% of time when present
- Phage (with cluster) where this start called: DumpTruck_25 (DV),

Start 11:

- Found in 38 of 39 (97.4%) of genes in pham
- No Manual Annotations of this start.
- Called 2.6% of time when present
- Phage (with cluster) where this start called: Riduram_24 (DV),

Start 14:

- Found in 38 of 39 (97.4%) of genes in pham
- Manual Annotations of this start: 32 of 33
- Called 97.4% of time when present
- Phage (with cluster) where this start called: Alephilan_23 (DV), Alyssamiracle_25 (DV), Astralis_23 (DV), Avian_23 (DV), BirthdayBoy_27 (DV), Charminar_23 (DV), DaviePasture_26 (DV), DoobyDoo_25 (DV), Erutan_26 (DV), Fulcrum_27 (DV), GOATification_27 (DV), Genamy16_25 (DV), Gibbin_27 (DV), GretelLyn_26 (DV), Jalebi_25 (DV), Jamemuya19_23 (DV), Lambo_26 (DV), LavAbarElk_24 (DV), Lila22_25 (DV), Mima20_24 (DV), MoiGyank_28 (DV), NorManre_27 (DV), NovaSharks_25 (DV), OtterstedtS21_26 (DV), ParvusTarda_26 (DV), Patos_27 (DV), Ranch_26 (DV), RazorC_23 (DV), Rota_25 (DV), Rukungu_26 (DV), Rumi_25 (DV), Sadboi_26 (DV), Sampudon_26 (DV), Stormer_24 (DV), Wojtek_25 (DV), Yikes_27 (DV), Zany_24 (DV),

Summary by clusters:

There is one cluster represented in this pham: DV

Info for manual annotations of cluster DV:

- Start number 10 was manually annotated 1 time for cluster DV.
- Start number 14 was manually annotated 32 times for cluster DV.

Gene Information:

Gene: Alephilan_23 Start: 16408, Stop: 16746, Start Num: 14

Candidate Starts for Alephilan_23:

(6, 16207), (7, 16228), (8, 16336), (Start: 10 @16369 has 1 MA's), (11, 16372), (13, 16402), (Start: 14 @16408 has 32 MA's), (15, 16561), (16, 16567), (18, 16585), (19, 16594), (20, 16696),

Gene: Alyssamiracle_25 Start: 14805, Stop: 15143, Start Num: 14

Candidate Starts for Alyssamiracle_25:

(6, 14604), (8, 14733), (9, 14742), (Start: 10 @14766 has 1 MA's), (11, 14769), (13, 14799), (Start: 14 @14805 has 32 MA's), (15, 14958), (16, 14964), (18, 14982), (19, 14991), (20, 15093),

Gene: Astralis_23 Start: 14805, Stop: 15143, Start Num: 14

Candidate Starts for Astralis_23:

(6, 14604), (8, 14733), (9, 14742), (Start: 10 @14766 has 1 MA's), (11, 14769), (13, 14799), (Start: 14 @14805 has 32 MA's), (15, 14958), (16, 14964), (18, 14982), (19, 14991), (20, 15093),

Gene: Avian_23 Start: 14805, Stop: 15143, Start Num: 14

Candidate Starts for Avian_23:

(6, 14604), (8, 14733), (9, 14742), (Start: 10 @14766 has 1 MA's), (11, 14769), (13, 14799), (Start: 14 @14805 has 32 MA's), (15, 14958), (16, 14964), (18, 14982), (19, 14991), (20, 15093),

Gene: BirthdayBoy_27 Start: 17252, Stop: 17590, Start Num: 14

Candidate Starts for BirthdayBoy_27:

(6, 17051), (8, 17180), (Start: 10 @17213 has 1 MA's), (11, 17216), (13, 17246), (Start: 14 @17252 has 32 MA's), (15, 17405), (16, 17411), (18, 17429), (19, 17438), (20, 17540),

Gene: Charminar_23 Start: 14805, Stop: 15143, Start Num: 14

Candidate Starts for Charminar_23:

(6, 14604), (8, 14733), (9, 14742), (Start: 10 @14766 has 1 MA's), (11, 14769), (13, 14799), (Start: 14 @14805 has 32 MA's), (15, 14958), (16, 14964), (18, 14982), (19, 14991), (20, 15093),

Gene: DaviePasture_26 Start: 17021, Stop: 17359, Start Num: 14

Candidate Starts for DaviePasture_26:

(2, 16712), (3, 16724), (4, 16736), (5, 16769), (6, 16820), (8, 16949), (Start: 10 @16982 has 1 MA's), (11, 16985), (13, 17015), (Start: 14 @17021 has 32 MA's), (15, 17174), (16, 17180), (18, 17198), (19, 17207), (20, 17309),

Gene: DoobyDoo_25 Start: 16186, Stop: 16524, Start Num: 14

Candidate Starts for DoobyDoo_25:

(1, 15769), (2, 15877), (3, 15889), (4, 15901), (5, 15934), (6, 15985), (8, 16114), (Start: 10 @16147 has 1 MA's), (11, 16150), (13, 16180), (Start: 14 @16186 has 32 MA's), (15, 16339), (16, 16345), (18, 16363), (19, 16372), (20, 16474),

Gene: DumpTruck_25 Start: 16400, Stop: 16777, Start Num: 10

Candidate Starts for DumpTruck_25:

(Start: 10 @16400 has 1 MA's), (16, 16598), (17, 16613), (20, 16727), (21, 16754),

Gene: Erutan_26 Start: 16699, Stop: 17037, Start Num: 14

Candidate Starts for Erutan_26:

(6, 16498), (8, 16627), (Start: 10 @16660 has 1 MA's), (11, 16663), (13, 16693), (Start: 14 @16699 has 32 MA's), (15, 16852), (16, 16858), (18, 16876), (19, 16885), (20, 16987),

Gene: Fulcrum_27 Start: 17232, Stop: 17570, Start Num: 14

Candidate Starts for Fulcrum_27:

(6, 17031), (8, 17160), (Start: 10 @17193 has 1 MA's), (11, 17196), (13, 17226), (Start: 14 @17232 has 32 MA's), (15, 17385), (16, 17391), (18, 17409), (19, 17418), (20, 17520),

Gene: GOATification_27 Start: 17232, Stop: 17570, Start Num: 14

Candidate Starts for GOATification_27:

(6, 17031), (8, 17160), (Start: 10 @17193 has 1 MA's), (11, 17196), (13, 17226), (Start: 14 @17232 has 32 MA's), (15, 17385), (16, 17391), (18, 17409), (19, 17418), (20, 17520),

Gene: Genamy16_25 Start: 14805, Stop: 15143, Start Num: 14

Candidate Starts for Genamy16_25:

(6, 14604), (8, 14733), (9, 14742), (Start: 10 @14766 has 1 MA's), (11, 14769), (13, 14799), (Start: 14 @14805 has 32 MA's), (15, 14958), (16, 14964), (18, 14982), (19, 14991), (20, 15093),

Gene: Gibbin_27 Start: 17304, Stop: 17642, Start Num: 14

Candidate Starts for Gibbin_27:

(2, 16995), (3, 17007), (4, 17019), (5, 17052), (6, 17103), (8, 17232), (Start: 10 @17265 has 1 MA's), (11, 17268), (13, 17298), (Start: 14 @17304 has 32 MA's), (15, 17457), (16, 17463), (18, 17481), (19, 17490), (20, 17592),

Gene: Gretellyn_26 Start: 17566, Stop: 17904, Start Num: 14

Candidate Starts for Gretellyn_26:

(6, 17365), (7, 17386), (8, 17494), (Start: 10 @17527 has 1 MA's), (11, 17530), (13, 17560), (Start: 14 @17566 has 32 MA's), (15, 17719), (16, 17725), (18, 17743), (19, 17752), (20, 17854),

Gene: Jalebi_25 Start: 17742, Stop: 18080, Start Num: 14

Candidate Starts for Jalebi_25:

(8, 17670), (Start: 10 @17703 has 1 MA's), (11, 17706), (13, 17736), (Start: 14 @17742 has 32 MA's), (15, 17895), (16, 17901), (18, 17919), (19, 17928), (20, 18030),

Gene: Jamemuya19_23 Start: 14805, Stop: 15143, Start Num: 14

Candidate Starts for Jamemuya19_23:

(6, 14604), (8, 14733), (9, 14742), (Start: 10 @14766 has 1 MA's), (11, 14769), (13, 14799), (Start: 14 @14805 has 32 MA's), (15, 14958), (16, 14964), (18, 14982), (19, 14991), (20, 15093),

Gene: Lambo_26 Start: 17244, Stop: 17582, Start Num: 14

Candidate Starts for Lambo_26:

(6, 17043), (8, 17172), (Start: 10 @17205 has 1 MA's), (11, 17208), (13, 17238), (Start: 14 @17244 has 32 MA's), (15, 17397), (16, 17403), (18, 17421), (19, 17430), (20, 17532),

Gene: LavAbarElk_24 Start: 15681, Stop: 16019, Start Num: 14

Candidate Starts for LavAbarElk_24:

(2, 15372), (3, 15384), (4, 15396), (5, 15429), (6, 15480), (8, 15609), (Start: 10 @15642 has 1 MA's), (11, 15645), (13, 15675), (Start: 14 @15681 has 32 MA's), (15, 15834), (16, 15840), (18, 15858), (19, 15867), (20, 15969),

Gene: Lila22_25 Start: 17190, Stop: 17528, Start Num: 14

Candidate Starts for Lila22_25:

(8, 17118), (Start: 10 @17151 has 1 MA's), (11, 17154), (13, 17184), (Start: 14 @17190 has 32 MA's), (15, 17343), (16, 17349), (18, 17367), (19, 17376), (20, 17478),

Gene: Mima20_24 Start: 16931, Stop: 17269, Start Num: 14

Candidate Starts for Mima20_24:

(2, 16622), (3, 16634), (4, 16646), (5, 16679), (6, 16730), (8, 16859), (Start: 10 @16892 has 1 MA's), (11, 16895), (13, 16925), (Start: 14 @16931 has 32 MA's), (15, 17084), (16, 17090), (18, 17108), (19, 17117), (20, 17219),

Gene: MoiGyank_28 Start: 17603, Stop: 17941, Start Num: 14

Candidate Starts for MoiGyank_28:

(6, 17402), (8, 17531), (Start: 10 @17564 has 1 MA's), (11, 17567), (13, 17597), (Start: 14 @17603 has 32 MA's), (15, 17756), (16, 17762), (18, 17780), (19, 17789), (20, 17891),

Gene: NorManre_27 Start: 16810, Stop: 17148, Start Num: 14

Candidate Starts for NorManre_27:

(2, 16501), (3, 16513), (4, 16525), (5, 16558), (6, 16609), (8, 16738), (Start: 10 @16771 has 1 MA's), (11, 16774), (13, 16804), (Start: 14 @16810 has 32 MA's), (15, 16963), (16, 16969), (18, 16987), (19, 16996), (20, 17098),

Gene: NovaSharks_25 Start: 14805, Stop: 15143, Start Num: 14

Candidate Starts for NovaSharks_25:

(6, 14604), (8, 14733), (9, 14742), (Start: 10 @14766 has 1 MA's), (11, 14769), (13, 14799), (Start: 14 @14805 has 32 MA's), (15, 14958), (16, 14964), (18, 14982), (19, 14991), (20, 15093),

Gene: OtterstedtS21_26 Start: 16888, Stop: 17226, Start Num: 14

Candidate Starts for OtterstedtS21_26:

(6, 16687), (7, 16708), (8, 16816), (Start: 10 @16849 has 1 MA's), (11, 16852), (13, 16882), (Start: 14 @16888 has 32 MA's), (15, 17041), (16, 17047), (18, 17065), (19, 17074), (20, 17176),

Gene: ParvusTarda_26 Start: 16370, Stop: 16708, Start Num: 14

Candidate Starts for ParvusTarda_26:

(6, 16169), (8, 16298), (Start: 10 @16331 has 1 MA's), (11, 16334), (13, 16364), (Start: 14 @16370 has 32 MA's), (15, 16523), (16, 16529), (18, 16547), (19, 16556), (20, 16658),

Gene: Patos_27 Start: 16810, Stop: 17148, Start Num: 14

Candidate Starts for Patos_27:

(2, 16501), (3, 16513), (4, 16525), (5, 16558), (6, 16609), (8, 16738), (Start: 10 @16771 has 1 MA's), (11, 16774), (13, 16804), (Start: 14 @16810 has 32 MA's), (15, 16963), (16, 16969), (18, 16987), (19, 16996), (20, 17098),

Gene: Ranch_26 Start: 15736, Stop: 16074, Start Num: 14

Candidate Starts for Ranch_26:

(6, 15535), (8, 15664), (Start: 10 @15697 has 1 MA's), (11, 15700), (13, 15730), (Start: 14 @15736 has 32 MA's), (15, 15889), (16, 15895), (18, 15913), (19, 15922), (20, 16024),

Gene: RazorC_23 Start: 14805, Stop: 15143, Start Num: 14

Candidate Starts for RazorC_23:

(6, 14604), (8, 14733), (9, 14742), (Start: 10 @14766 has 1 MA's), (11, 14769), (13, 14799), (Start: 14 @14805 has 32 MA's), (15, 14958), (16, 14964), (18, 14982), (19, 14991), (20, 15093),

Gene: Riduram_24 Start: 14739, Stop: 15113, Start Num: 11

Candidate Starts for Riduram_24:

(6, 14574), (8, 14703), (9, 14712), (Start: 10 @14736 has 1 MA's), (11, 14739), (13, 14769), (Start: 14 @14775 has 32 MA's), (15, 14928), (16, 14934), (18, 14952), (19, 14961), (20, 15063),

Gene: Rota_25 Start: 16694, Stop: 17032, Start Num: 14

Candidate Starts for Rota_25:

(6, 16493), (8, 16622), (Start: 10 @16655 has 1 MA's), (11, 16658), (13, 16688), (Start: 14 @16694 has 32 MA's), (15, 16847), (16, 16853), (18, 16871), (19, 16880), (20, 16982),

Gene: Rukungu_26 Start: 17435, Stop: 17773, Start Num: 14

Candidate Starts for Rukungu_26:

(6, 17234), (7, 17255), (8, 17363), (Start: 10 @17396 has 1 MA's), (11, 17399), (13, 17429), (Start: 14 @17435 has 32 MA's), (15, 17588), (16, 17594), (18, 17612), (19, 17621), (20, 17723),

Gene: Rumi_25 Start: 14805, Stop: 15143, Start Num: 14

Candidate Starts for Rumi_25:

(6, 14604), (8, 14733), (9, 14742), (Start: 10 @14766 has 1 MA's), (11, 14769), (13, 14799), (Start: 14 @14805 has 32 MA's), (15, 14958), (16, 14964), (18, 14982), (19, 14991), (20, 15093),

Gene: Sadboi_26 Start: 17566, Stop: 17904, Start Num: 14

Candidate Starts for Sadboi_26:

(6, 17365), (7, 17386), (8, 17494), (Start: 10 @17527 has 1 MA's), (11, 17530), (13, 17560), (Start: 14 @17566 has 32 MA's), (15, 17719), (16, 17725), (18, 17743), (19, 17752), (20, 17854),

Gene: Sampudon_26 Start: 17742, Stop: 18080, Start Num: 14

Candidate Starts for Sampudon_26:

(8, 17670), (Start: 10 @17703 has 1 MA's), (11, 17706), (13, 17736), (Start: 14 @17742 has 32 MA's), (15, 17895), (16, 17901), (18, 17919), (19, 17928), (20, 18030),

Gene: Stormer_24 Start: 14805, Stop: 15143, Start Num: 14

Candidate Starts for Stormer_24:

(6, 14604), (8, 14733), (9, 14742), (Start: 10 @14766 has 1 MA's), (11, 14769), (13, 14799), (Start: 14 @14805 has 32 MA's), (15, 14958), (16, 14964), (18, 14982), (19, 14991), (20, 15093),

Gene: Wojtek_25 Start: 16443, Stop: 16781, Start Num: 14

Candidate Starts for Wojtek_25:

(6, 16242), (8, 16371), (Start: 10 @16404 has 1 MA's), (11, 16407), (12, 16416), (13, 16437), (Start: 14 @16443 has 32 MA's), (15, 16596), (16, 16602), (18, 16620), (19, 16629), (20, 16731),

Gene: Yikes_27 Start: 17827, Stop: 18165, Start Num: 14

Candidate Starts for Yikes_27:

(6, 17626), (7, 17647), (8, 17755), (Start: 10 @17788 has 1 MA's), (11, 17791), (13, 17821), (Start: 14 @17827 has 32 MA's), (15, 17980), (16, 17986), (18, 18004), (19, 18013), (20, 18115),

Gene: Zany_24 Start: 16956, Stop: 17294, Start Num: 14

Candidate Starts for Zany_24:

(6, 16755), (7, 16776), (8, 16884), (Start: 10 @16917 has 1 MA's), (11, 16920), (13, 16950), (Start: 14 @16956 has 32 MA's), (15, 17109), (16, 17115), (18, 17133), (19, 17142), (20, 17244),