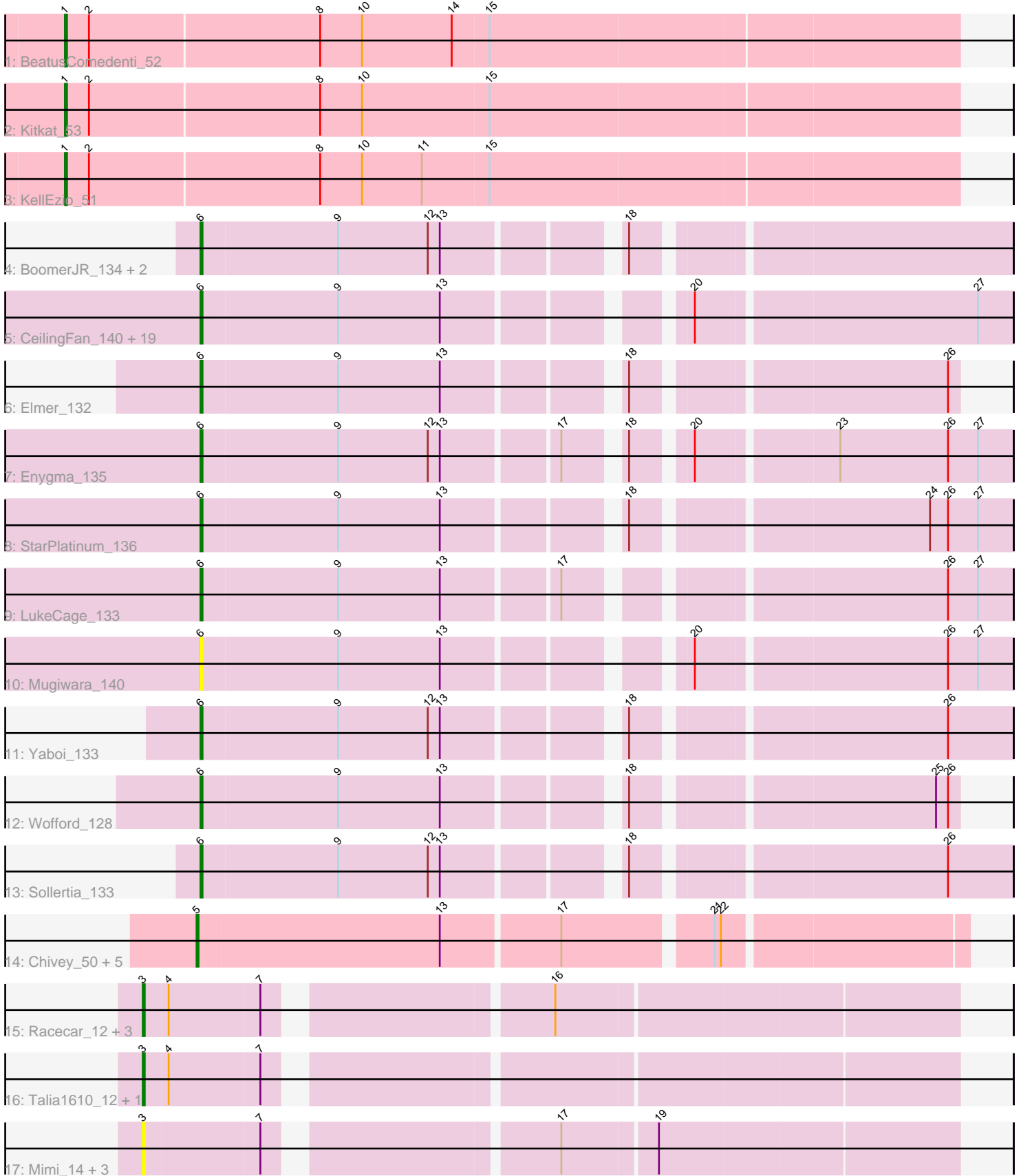


Pham 196604



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 196604 Report

This analysis was run 12/09/24 on database version 580.

Pham number 196604 has 50 members, 10 are drafts.

Phages represented in each track:

- Track 1 : BeatusComedenti_52
- Track 2 : Kitkat_53
- Track 3 : Kellezio_51
- Track 4 : BoomerJR_134, Genie2_134, Stanimal_132
- Track 5 : CeilingFan_140, Karimac_133, JimJam_137, Gibbi_140, Jollison_133, Bordeaux_133, TomSawyer_135, Amabiko_135, IchabodCrane_129, Starbow_132, PumpkinSpice_136, Quaran19_134, KentuckyRacer_136, Battuta_133, Birchlyn_133, Spelly_136, Wipeout_128, MindFlayer_130, SaltySpittoon_134, Spilled_137
- Track 6 : Elmer_132
- Track 7 : Enygma_135
- Track 8 : StarPlatinum_136
- Track 9 : LukeCage_133
- Track 10 : Mugiwara_140
- Track 11 : Yaboi_133
- Track 12 : Wofford_128
- Track 13 : Sollertia_133
- Track 14 : Chivey_50, Hiddenleaf_50, FreddieHg_50, DannyDe_50, Snakehole_50, Haunter_50
- Track 15 : Racecar_12, Bloom_300, Bloom_13, Racecar_301
- Track 16 : Talia1610_12, Talia1610_298
- Track 17 : Mimi_14, Mimi_304, Patbob_301, Patbob_11

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

The start number called the most often in the published annotations is 6, it was called in 28 of the 40 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amabiko_135, Battuta_133, Birchlyn_133, BoomerJR_134, Bordeaux_133, CeilingFan_140, Elmer_132, Enygma_135, Genie2_134, Gibbi_140, IchabodCrane_129, JimJam_137, Jollison_133, Karimac_133, KentuckyRacer_136, LukeCage_133, MindFlayer_130, Mugiwara_140, PumpkinSpice_136, Quaran19_134, SaltySpittoon_134, Sollertia_133, Spelly_136, Spilled_137, Stanimal_132, StarPlatinum_136, Starbow_132, TomSawyer_135, Wipeout_128,

Wofford_128, Yaboi_133,

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

-

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

- BeatusComedenti_52, Bloom_13, Bloom_300, Chivey_50, DannyDe_50, FreddieHg_50, Haunter_50, Hiddenleaf_50, KellEzio_51, Kitkat_53, Mimi_14, Mimi_304, Patbob_11, Patbob_301, Racecar_12, Racecar_301, Snakehole_50, Talia1610_12, Talia1610_298,

Summary by start number:

Start 1:

- Found in 3 of 50 (6.0%) of genes in pham
- Manual Annotations of this start: 3 of 40
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BeatusComedenti_52 (AT), KellEzio_51 (AT), Kitkat_53 (AT),

Start 3:

- Found in 10 of 50 (20.0%) of genes in pham
- Manual Annotations of this start: 4 of 40
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bloom_13 (FC), Bloom_300 (FC), Mimi_14 (FC), Mimi_304 (FC), Patbob_11 (FC), Patbob_301 (FC), Racecar_12 (FC), Racecar_301 (FC), Talia1610_12 (FC), Talia1610_298 (FC),

Start 5:

- Found in 6 of 50 (12.0%) of genes in pham
- Manual Annotations of this start: 5 of 40
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chivey_50 (EF), DannyDe_50 (EF), FreddieHg_50 (EF), Haunter_50 (EF), Hiddenleaf_50 (EF), Snakehole_50 (EF),

Start 6:

- Found in 31 of 50 (62.0%) of genes in pham
- Manual Annotations of this start: 28 of 40
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amabiko_135 (BE2), Battuta_133 (BE2), Birchlyn_133 (BE2), BoomerJR_134 (BE2), Bordeaux_133 (BE2), CeilingFan_140 (BE2), Elmer_132 (BE2), Enygma_135 (BE2), Genie2_134 (BE2), Gibbi_140 (BE2), IchabodCrane_129 (BE2), JimJam_137 (BE2), Jollison_133 (BE2), Karimac_133 (BE2), KentuckyRacer_136 (BE2), LukeCage_133 (BE2), MindFlayer_130 (BE2), Mugiwara_140 (BE2), PumpkinSpice_136 (BE2), Quaran19_134 (BE2), SaltySpittoon_134 (BE2), Sollertia_133 (BE2), Spelly_136 (BE2), Spilled_137 (BE2), Stanimal_132 (BE2), StarPlatinum_136 (BE2), Starbow_132 (BE2), TomSawyer_135 (BE2), Wipeout_128 (BE2), Wofford_128 (BE2), Yaboi_133 (BE2),

Summary by clusters:

There are 4 clusters represented in this pham: BE2, FC, AT, EF,

Info for manual annotations of cluster AT:

- Start number 1 was manually annotated 3 times for cluster AT.

Info for manual annotations of cluster BE2:

- Start number 6 was manually annotated 28 times for cluster BE2.

Info for manual annotations of cluster EF:

- Start number 5 was manually annotated 5 times for cluster EF.

Info for manual annotations of cluster FC:

- Start number 3 was manually annotated 4 times for cluster FC.

Gene Information:

Gene: Amabiko_135 Start: 82908, Stop: 83279, Start Num: 6

Candidate Starts for Amabiko_135:

(Start: 6 @82908 has 28 MA's), (9, 82974), (13, 83025), (20, 83127), (27, 83262),

Gene: Battuta_133 Start: 82881, Stop: 83252, Start Num: 6

Candidate Starts for Battuta_133:

(Start: 6 @82881 has 28 MA's), (9, 82947), (13, 82998), (20, 83100), (27, 83235),

Gene: BeatusComedenti_52 Start: 34863, Stop: 35303, Start Num: 1

Candidate Starts for BeatusComedenti_52:

(Start: 1 @34863 has 3 MA's), (2, 34875), (8, 34989), (10, 35010), (14, 35055), (15, 35073),

Gene: Birchlyn_133 Start: 80768, Stop: 81139, Start Num: 6

Candidate Starts for Birchlyn_133:

(Start: 6 @80768 has 28 MA's), (9, 80834), (13, 80885), (20, 80987), (27, 81122),

Gene: Bloom_300 Start: 179500, Stop: 179877, Start Num: 3

Candidate Starts for Bloom_300:

(Start: 3 @179500 has 4 MA's), (4, 179512), (7, 179557), (16, 179683),

Gene: Bloom_13 Start: 6025, Stop: 6402, Start Num: 3

Candidate Starts for Bloom_13:

(Start: 3 @6025 has 4 MA's), (4, 6037), (7, 6082), (16, 6208),

Gene: BoomerJR_134 Start: 83211, Stop: 83582, Start Num: 6

Candidate Starts for BoomerJR_134:

(Start: 6 @83211 has 28 MA's), (9, 83277), (12, 83322), (13, 83328), (18, 83406),

Gene: Bordeaux_133 Start: 83036, Stop: 83407, Start Num: 6

Candidate Starts for Bordeaux_133:

(Start: 6 @83036 has 28 MA's), (9, 83102), (13, 83153), (20, 83255), (27, 83390),

Gene: CeilingFan_140 Start: 82799, Stop: 83170, Start Num: 6

Candidate Starts for CeilingFan_140:

(Start: 6 @82799 has 28 MA's), (9, 82865), (13, 82916), (20, 83018), (27, 83153),

Gene: Chivey_50 Start: 35268, Stop: 35633, Start Num: 5

Candidate Starts for Chivey_50:

(Start: 5 @35268 has 5 MA's), (13, 35388), (17, 35445), (21, 35514), (22, 35517),

Gene: DannyDe_50 Start: 35262, Stop: 35627, Start Num: 5

Candidate Starts for DannyDe_50:

(Start: 5 @35262 has 5 MA's), (13, 35382), (17, 35439), (21, 35508), (22, 35511),

Gene: Elmer_132 Start: 84041, Stop: 84385, Start Num: 6

Candidate Starts for Elmer_132:

(Start: 6 @84041 has 28 MA's), (9, 84107), (13, 84158), (18, 84236), (26, 84380),

Gene: Enygma_135 Start: 84720, Stop: 85091, Start Num: 6

Candidate Starts for Enygma_135:

(Start: 6 @84720 has 28 MA's), (9, 84786), (12, 84831), (13, 84837), (17, 84891), (18, 84915), (20, 84939), (23, 85005), (26, 85059), (27, 85074),

Gene: FreddieHg_50 Start: 35278, Stop: 35643, Start Num: 5

Candidate Starts for FreddieHg_50:

(Start: 5 @35278 has 5 MA's), (13, 35398), (17, 35455), (21, 35524), (22, 35527),

Gene: Genie2_134 Start: 83325, Stop: 83696, Start Num: 6

Candidate Starts for Genie2_134:

(Start: 6 @83325 has 28 MA's), (9, 83391), (12, 83436), (13, 83442), (18, 83520),

Gene: Gibbi_140 Start: 83020, Stop: 83391, Start Num: 6

Candidate Starts for Gibbi_140:

(Start: 6 @83020 has 28 MA's), (9, 83086), (13, 83137), (20, 83239), (27, 83374),

Gene: Haunter_50 Start: 35440, Stop: 35805, Start Num: 5

Candidate Starts for Haunter_50:

(Start: 5 @35440 has 5 MA's), (13, 35560), (17, 35617), (21, 35686), (22, 35689),

Gene: Hiddenleaf_50 Start: 35268, Stop: 35633, Start Num: 5

Candidate Starts for Hiddenleaf_50:

(Start: 5 @35268 has 5 MA's), (13, 35388), (17, 35445), (21, 35514), (22, 35517),

Gene: IchabodCrane_129 Start: 82609, Stop: 82980, Start Num: 6

Candidate Starts for IchabodCrane_129:

(Start: 6 @82609 has 28 MA's), (9, 82675), (13, 82726), (20, 82828), (27, 82963),

Gene: JimJam_137 Start: 83430, Stop: 83801, Start Num: 6

Candidate Starts for JimJam_137:

(Start: 6 @83430 has 28 MA's), (9, 83496), (13, 83547), (20, 83649), (27, 83784),

Gene: Jollison_133 Start: 82864, Stop: 83235, Start Num: 6

Candidate Starts for Jollison_133:

(Start: 6 @82864 has 28 MA's), (9, 82930), (13, 82981), (20, 83083), (27, 83218),

Gene: Karimac_133 Start: 83147, Stop: 83518, Start Num: 6

Candidate Starts for Karimac_133:

(Start: 6 @83147 has 28 MA's), (9, 83213), (13, 83264), (20, 83366), (27, 83501),

Gene: KellEzio_51 Start: 34648, Stop: 35088, Start Num: 1

Candidate Starts for KellEzio_51:

(Start: 1 @34648 has 3 MA's), (2, 34660), (8, 34774), (10, 34795), (11, 34825), (15, 34858),

Gene: KentuckyRacer_136 Start: 83295, Stop: 83666, Start Num: 6

Candidate Starts for KentuckyRacer_136:

(Start: 6 @83295 has 28 MA's), (9, 83361), (13, 83412), (20, 83514), (27, 83649),

Gene: Kitkat_53 Start: 34958, Stop: 35398, Start Num: 1

Candidate Starts for Kitkat_53:

(Start: 1 @34958 has 3 MA's), (2, 34970), (8, 35084), (10, 35105), (15, 35168),

Gene: LukeCage_133 Start: 83924, Stop: 84295, Start Num: 6

Candidate Starts for LukeCage_133:

(Start: 6 @83924 has 28 MA's), (9, 83990), (13, 84041), (17, 84095), (26, 84263), (27, 84278),

Gene: Mimi_14 Start: 5961, Stop: 6338, Start Num: 3

Candidate Starts for Mimi_14:

(Start: 3 @5961 has 4 MA's), (7, 6018), (17, 6147), (19, 6192),

Gene: Mimi_304 Start: 178621, Stop: 178998, Start Num: 3

Candidate Starts for Mimi_304:

(Start: 3 @178621 has 4 MA's), (7, 178678), (17, 178807), (19, 178852),

Gene: MindFlayer_130 Start: 82516, Stop: 82887, Start Num: 6

Candidate Starts for MindFlayer_130:

(Start: 6 @82516 has 28 MA's), (9, 82582), (13, 82633), (20, 82735), (27, 82870),

Gene: Mugiwara_140 Start: 83757, Stop: 84128, Start Num: 6

Candidate Starts for Mugiwara_140:

(Start: 6 @83757 has 28 MA's), (9, 83823), (13, 83874), (20, 83976), (26, 84096), (27, 84111),

Gene: Patbob_301 Start: 181477, Stop: 181854, Start Num: 3

Candidate Starts for Patbob_301:

(Start: 3 @181477 has 4 MA's), (7, 181534), (17, 181663), (19, 181708),

Gene: Patbob_11 Start: 6018, Stop: 6395, Start Num: 3

Candidate Starts for Patbob_11:

(Start: 3 @6018 has 4 MA's), (7, 6075), (17, 6204), (19, 6249),

Gene: PumpkinSpice_136 Start: 83472, Stop: 83843, Start Num: 6

Candidate Starts for PumpkinSpice_136:

(Start: 6 @83472 has 28 MA's), (9, 83538), (13, 83589), (20, 83691), (27, 83826),

Gene: Quaran19_134 Start: 82898, Stop: 83269, Start Num: 6

Candidate Starts for Quaran19_134:

(Start: 6 @82898 has 28 MA's), (9, 82964), (13, 83015), (20, 83117), (27, 83252),

Gene: Racecar_12 Start: 6025, Stop: 6402, Start Num: 3

Candidate Starts for Racecar_12:

(Start: 3 @6025 has 4 MA's), (4, 6037), (7, 6082), (16, 6208),

Gene: Racecar_301 Start: 179734, Stop: 180111, Start Num: 3

Candidate Starts for Racecar_301:

(Start: 3 @179734 has 4 MA's), (4, 179746), (7, 179791), (16, 179917),

Gene: SaltySpittoon_134 Start: 82911, Stop: 83282, Start Num: 6

Candidate Starts for SaltySpittoon_134:

(Start: 6 @82911 has 28 MA's), (9, 82977), (13, 83028), (20, 83130), (27, 83265),

Gene: Snakehole_50 Start: 35246, Stop: 35611, Start Num: 5

Candidate Starts for Snakehole_50:

(Start: 5 @35246 has 5 MA's), (13, 35366), (17, 35423), (21, 35492), (22, 35495),

Gene: Sollertia_133 Start: 83325, Stop: 83696, Start Num: 6

Candidate Starts for Sollertia_133:

(Start: 6 @83325 has 28 MA's), (9, 83391), (12, 83436), (13, 83442), (18, 83520), (26, 83664),

Gene: Spelly_136 Start: 82863, Stop: 83234, Start Num: 6

Candidate Starts for Spelly_136:

(Start: 6 @82863 has 28 MA's), (9, 82929), (13, 82980), (20, 83082), (27, 83217),

Gene: Spilled_137 Start: 82981, Stop: 83352, Start Num: 6

Candidate Starts for Spilled_137:

(Start: 6 @82981 has 28 MA's), (9, 83047), (13, 83098), (20, 83200), (27, 83335),

Gene: Stanimal_132 Start: 83214, Stop: 83585, Start Num: 6

Candidate Starts for Stanimal_132:

(Start: 6 @83214 has 28 MA's), (9, 83280), (12, 83325), (13, 83331), (18, 83409),

Gene: StarPlatinum_136 Start: 84178, Stop: 84549, Start Num: 6

Candidate Starts for StarPlatinum_136:

(Start: 6 @84178 has 28 MA's), (9, 84244), (13, 84295), (18, 84373), (24, 84508), (26, 84517), (27, 84532),

Gene: Starbow_132 Start: 82883, Stop: 83254, Start Num: 6

Candidate Starts for Starbow_132:

(Start: 6 @82883 has 28 MA's), (9, 82949), (13, 83000), (20, 83102), (27, 83237),

Gene: Talia1610_12 Start: 5976, Stop: 6353, Start Num: 3

Candidate Starts for Talia1610_12:

(Start: 3 @5976 has 4 MA's), (4, 5988), (7, 6033),

Gene: Talia1610_298 Start: 180448, Stop: 180825, Start Num: 3

Candidate Starts for Talia1610_298:

(Start: 3 @180448 has 4 MA's), (4, 180460), (7, 180505),

Gene: TomSawyer_135 Start: 82929, Stop: 83300, Start Num: 6

Candidate Starts for TomSawyer_135:

(Start: 6 @82929 has 28 MA's), (9, 82995), (13, 83046), (20, 83148), (27, 83283),

Gene: Wipeout_128 Start: 83253, Stop: 83624, Start Num: 6

Candidate Starts for Wipeout_128:

(Start: 6 @83253 has 28 MA's), (9, 83319), (13, 83370), (20, 83472), (27, 83607),

Gene: Wofford_128 Start: 84006, Stop: 84350, Start Num: 6

Candidate Starts for Wofford_128:

(Start: 6 @84006 has 28 MA's), (9, 84072), (13, 84123), (18, 84201), (25, 84339), (26, 84345),

Gene: Yaboi_133 Start: 82787, Stop: 83158, Start Num: 6

Candidate Starts for Yaboi_133:

(Start: 6 @82787 has 28 MA's), (9, 82853), (12, 82898), (13, 82904), (18, 82982), (26, 83126),