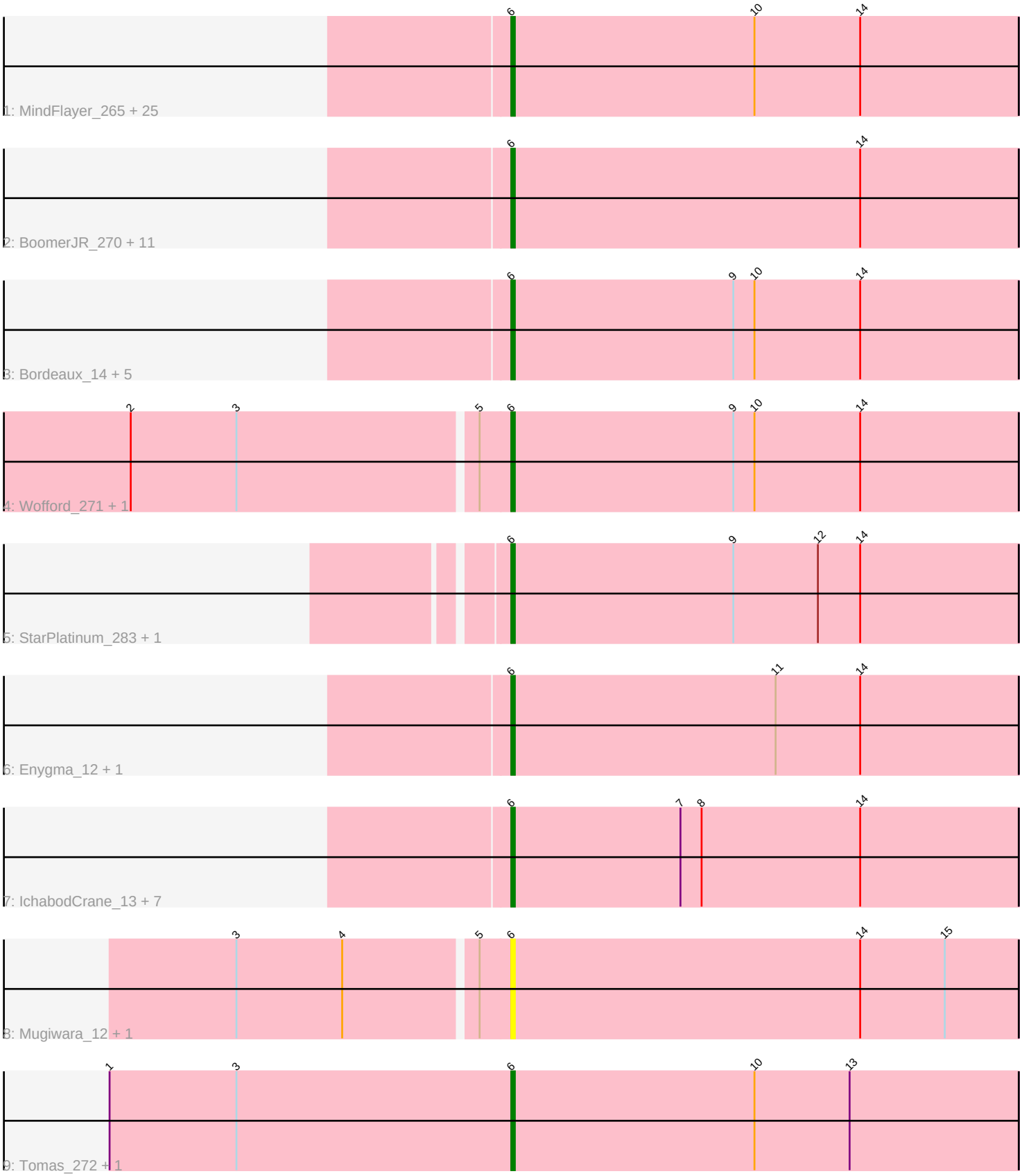
Pham 1839


6
10
14
1: MindFlayer_265 + 25
6
14
2: BoomerJR_270 + 11
6
9
10
14
3: Bordeaux_14 + 5
2
3
5
6
9
10
14
4: Wofford_271 + 1
6
9
12
14
5: StarPlatinum_283 + 1
6
11
14
6: Enygma_12 + 1
6
7
8
14
7: IchabodCrane_13 + 7
3
4
5
6
14
15
8: Mugiwara_12 + 1
1
3
6
10
13
9: Tomas_272 + 1

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 1839 Report

This analysis was run 04/28/24 on database version 559.

Pham number 1839 has 62 members, 10 are drafts.

Phages represented in each track:
• Track 1 : MindFlayer_265, Wipeout_13, Amabiko_278, JimJam_282, PumpkinSpice_14, Wipeout_266, Birchlyn_11, Spilled_281, Spelly_14, PumpkinSpice_278, Gibbi_13, Quaran19_14, Quaran19_275, Birchlyn_271, TomSawyer_279, Spilled_13, Spelly_280, Jollison_14, Gibbi_284, Amabiko_14, Jollison_278, MindFlayer_13, SaltySpitoon_274, JimJam_14, TomSawyer_14, SaltySpitoon_14
• Track 2 : BoomerJR_270, Stanimal_270, Sollertia_15, Stanimal_15, LukeCage_276, BoomerJR_15, Genie2_270, Yaboi_276, Genie2_15, Sollertia_271, LukeCage_13, Yaboi_15
• Track 3 : Bordeaux_14, Starbow_14, Battuta_14, Starbow_271, Battuta_271, Bordeaux_271
• Track 4 : Wofford_271, Wofford_13
• Track 5 : StarPlatinum_283, StarPlatinum_13
• Track 6 : Enygma_12, Enygma_280
• Track 7 : IchabodCrane_13, CeilingFan_13, KentuckyRacer_288, IchabodCrane_266, KentuckyRacer_14, Karimac_14, CeilingFan_287, Karimac_272
• Track 8 : Mugiwara_12, Mugiwara_284
• Track 9 : Tomas_272, Tomas_16

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 52 of the 52 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Amabiko_14, Amabiko_278, Battuta_14, Battuta_271, Birchlyn_11, Birchlyn_271, BoomerJR_15, BoomerJR_270, Bordeaux_14, Bordeaux_271, CeilingFan_13, CeilingFan_287, Enygma_12, Enygma_280, Genie2_15, Genie2_270, Gibbi_13, Gibbi_284, IchabodCrane_13, IchabodCrane_266, JimJam_14, JimJam_282, Jollison_14, Jollison_278, Karimac_14, Karimac_272, KentuckyRacer_14, KentuckyRacer_288, LukeCage_13, LukeCage_276, MindFlayer_13, MindFlayer_265, Mugiwara_12, Mugiwara_284, PumpkinSpice_14, PumpkinSpice_278, Quaran19_14, Quaran19_275, SaltySpitoon_14, SaltySpitoon_274, Sollertia_15, Sollertia_271, Spelly_14, Spelly_280, Spilled_13,

Spilled_281, Stanimal_15, Stanimal_270, StarPlatinum_13, StarPlatinum_283, Starbow_14, Starbow_271, TomSawyer_14, TomSawyer_279, Tomas_16, Tomas_272, Wipeout_13, Wipeout_266, Wofford_13, Wofford_271, Yaboi_15, Yaboi_276,

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

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

Summary by start number:

Start 6:
• Found in 62 of 62 (100.0%) of genes in pham
• Manual Annotations of this start: 52 of 52
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amabiko_14 (BE2), Amabiko_278 (BE2), Battuta_14 (BE2), Battuta_271 (BE2), Birchlyn_11 (BE2), Birchlyn_271 (BE2), BoomerJR_15 (BE2), BoomerJR_270 (BE2), Bordeaux_14 (BE2), Bordeaux_271 (BE2), CeilingFan_13 (BE2), CeilingFan_287 (BE2), Enygma_12 (BE2), Enygma_280 (BE2), Genie2_15 (BE2), Genie2_270 (BE2), Gibbi_13 (BE2), Gibbi_284 (BE2), IchabodCrane_13 (BE2), IchabodCrane_266 (BE2), JimJam_14 (BE2), JimJam_282 (BE2), Jollison_14 (BE2), Jollison_278 (BE2), Karimac_14 (BE2), Karimac_272 (BE2), KentuckyRacer_14 (BE2), KentuckyRacer_288 (BE2), LukeCage_13 (BE2), LukeCage_276 (BE2), MindFlayer_13 (BE2), MindFlayer_265 (BE2), Mugiwara_12 (BE2), Mugiwara_284 (BE2), PumpkinSpice_14 (BE2), PumpkinSpice_278 (BE2), Quaran19_14 (BE2), Quaran19_275 (BE2), SaltySpitoon_14 (BE2), SaltySpitoon_274 (BE2), Sollertia_15 (BE2), Sollertia_271 (BE2), Spelly_14 (BE2), Spelly_280 (BE2), Spilled_13 (BE2), Spilled_281 (BE2), Stanimal_15 (BE2), Stanimal_270 (BE2), StarPlatinum_13 (BE2), StarPlatinum_283 (BE2), Starbow_14 (BE2), Starbow_271 (BE2), TomSawyer_14 (BE2), TomSawyer_279 (BE2), Tomas_16 (BE2), Tomas_272 (BE2), Wipeout_13 (BE2), Wipeout_266 (BE2), Wofford_13 (BE2), Wofford_271 (BE2), Yaboi_15 (BE2), Yaboi_276 (BE2),

Summary by clusters:

There is one cluster represented in this pham: BE2

Info for manual annotations of cluster BE2:
•Start number 6 was manually annotated 52 times for cluster BE2.

Gene Information:

Gene: Amabiko_278 Start: 126237, Stop: 126094, Start Num: 6
Candidate Starts for Amabiko_278:
(Start: 6 @126237 has 52 MA's), (10, 126168), (14, 126138),

Gene: Amabiko_14 Start: 7411, Stop: 7268, Start Num: 6
Candidate Starts for Amabiko_14:
(Start: 6 @7411 has 52 MA's), (10, 7342), (14, 7312),

Gene: Battuta_14 Start: 7411, Stop: 7268, Start Num: 6
Candidate Starts for Battuta_14:
(Start: 6 @7411 has 52 MA's), (9, 7348), (10, 7342), (14, 7312),

Gene: Battuta_271 Start: 125566, Stop: 125423, Start Num: 6
Candidate Starts for Battuta_271:
(Start: 6 @125566 has 52 MA's), (9, 125503), (10, 125497), (14, 125467),

Gene: Birchlyn_11 Start: 5264, Stop: 5121, Start Num: 6
Candidate Starts for Birchlyn_11:
(Start: 6 @5264 has 52 MA's), (10, 5195), (14, 5165),

Gene: Birchlyn_271 Start: 121355, Stop: 121212, Start Num: 6
Candidate Starts for Birchlyn_271:
(Start: 6 @121355 has 52 MA's), (10, 121286), (14, 121256),

Gene: BoomerJR_270 Start: 126181, Stop: 126038, Start Num: 6
Candidate Starts for BoomerJR_270:
(Start: 6 @126181 has 52 MA's), (14, 126082),

Gene: BoomerJR_15 Start: 7393, Stop: 7250, Start Num: 6
Candidate Starts for BoomerJR_15:
(Start: 6 @7393 has 52 MA's), (14, 7294),

Gene: Bordeaux_14 Start: 7411, Stop: 7268, Start Num: 6
Candidate Starts for Bordeaux_14:
(Start: 6 @7411 has 52 MA's), (9, 7348), (10, 7342), (14, 7312),

Gene: Bordeaux_271 Start: 126149, Stop: 126006, Start Num: 6
Candidate Starts for Bordeaux_271:
(Start: 6 @126149 has 52 MA's), (9, 126086), (10, 126080), (14, 126050),

Gene: CeilingFan_13 Start: 7022, Stop: 6879, Start Num: 6
Candidate Starts for CeilingFan_13:
(Start: 6 @7022 has 52 MA's), (7, 6974), (8, 6968), (14, 6923),

Gene: CeilingFan_287 Start: 127629, Stop: 127486, Start Num: 6
Candidate Starts for CeilingFan_287:
(Start: 6 @127629 has 52 MA's), (7, 127581), (8, 127575), (14, 127530),

Gene: Enygma_12 Start: 6672, Stop: 6529, Start Num: 6
Candidate Starts for Enygma_12:
(Start: 6 @6672 has 52 MA's), (11, 6597), (14, 6573),

Gene: Enygma_280 Start: 129096, Stop: 128953, Start Num: 6
Candidate Starts for Enygma_280:
(Start: 6 @129096 has 52 MA's), (11, 129021), (14, 128997),

Gene: Genie2_270 Start: 126294, Stop: 126151, Start Num: 6
Candidate Starts for Genie2_270:
(Start: 6 @126294 has 52 MA's), (14, 126195),

Gene: Genie2_15 Start: 7393, Stop: 7250, Start Num: 6
Candidate Starts for Genie2_15:
(Start: 6 @7393 has 52 MA's), (14, 7294),

Gene: Gibbi_13 Start: 7022, Stop: 6879, Start Num: 6
Candidate Starts for Gibbi_13:
(Start: 6 @7022 has 52 MA's), (10, 6953), (14, 6923),

Gene: Gibbi_284 Start: 127122, Stop: 126979, Start Num: 6
Candidate Starts for Gibbi_284:
(Start: 6 @127122 has 52 MA's), (10, 127053), (14, 127023),

Gene: IchabodCrane_13 Start: 7019, Stop: 6876, Start Num: 6
Candidate Starts for IchabodCrane_13:
(Start: 6 @7019 has 52 MA's), (7, 6971), (8, 6965), (14, 6920),

Gene: IchabodCrane_266 Start: 125562, Stop: 125419, Start Num: 6
Candidate Starts for IchabodCrane_266:
(Start: 6 @125562 has 52 MA's), (7, 125514), (8, 125508), (14, 125463),

Gene: JimJam_282 Start: 128946, Stop: 128803, Start Num: 6
Candidate Starts for JimJam_282:
(Start: 6 @128946 has 52 MA's), (10, 128877), (14, 128847),

Gene: JimJam_14 Start: 7410, Stop: 7267, Start Num: 6
Candidate Starts for JimJam_14:
(Start: 6 @7410 has 52 MA's), (10, 7341), (14, 7311),

Gene: Jollison_14 Start: 7411, Stop: 7268, Start Num: 6
Candidate Starts for Jollison_14:
(Start: 6 @7411 has 52 MA's), (10, 7342), (14, 7312),

Gene: Jollison_278 Start: 126086, Stop: 125943, Start Num: 6
Candidate Starts for Jollison_278:
(Start: 6 @126086 has 52 MA's), (10, 126017), (14, 125987),

Gene: Karimac_14 Start: 7413, Stop: 7270, Start Num: 6
Candidate Starts for Karimac_14:
(Start: 6 @7413 has 52 MA's), (7, 7365), (8, 7359), (14, 7314),

Gene: Karimac_272 Start: 126732, Stop: 126589, Start Num: 6
Candidate Starts for Karimac_272:
(Start: 6 @126732 has 52 MA's), (7, 126684), (8, 126678), (14, 126633),

Gene: KentuckyRacer_288 Start: 128474, Stop: 128331, Start Num: 6
Candidate Starts for KentuckyRacer_288:
(Start: 6 @128474 has 52 MA's), (7, 128426), (8, 128420), (14, 128375),

Gene: KentuckyRacer_14 Start: 7023, Stop: 6880, Start Num: 6
Candidate Starts for KentuckyRacer_14:
(Start: 6 @7023 has 52 MA's), (7, 6975), (8, 6969), (14, 6924),

Gene: LukeCage_276 Start: 127857, Stop: 127714, Start Num: 6

Candidate Starts for LukeCage_276:
(Start: 6 @127857 has 52 MA's), (14, 127758),

Gene: LukeCage_13 Start: 6953, Stop: 6810, Start Num: 6
Candidate Starts for LukeCage_13:
(Start: 6 @6953 has 52 MA's), (14, 6854),

Gene: MindFlayer_265 Start: 125081, Stop: 124938, Start Num: 6
Candidate Starts for MindFlayer_265:
(Start: 6 @125081 has 52 MA's), (10, 125012), (14, 124982),

Gene: MindFlayer_13 Start: 7021, Stop: 6878, Start Num: 6
Candidate Starts for MindFlayer_13:
(Start: 6 @7021 has 52 MA's), (10, 6952), (14, 6922),

Gene: Mugiwara_12 Start: 6680, Stop: 6537, Start Num: 6
Candidate Starts for Mugiwara_12:
(3, 6752), (4, 6722), (5, 6686), (Start: 6 @6680 has 52 MA's), (14, 6581), (15, 6557),

Gene: Mugiwara_284 Start: 128065, Stop: 127922, Start Num: 6
Candidate Starts for Mugiwara_284:
(3, 128137), (4, 128107), (5, 128071), (Start: 6 @128065 has 52 MA's), (14, 127966), (15, 127942),

Gene: PumpkinSpice_14 Start: 7411, Stop: 7268, Start Num: 6
Candidate Starts for PumpkinSpice_14:
(Start: 6 @7411 has 52 MA's), (10, 7342), (14, 7312),

Gene: PumpkinSpice_278 Start: 127303, Stop: 127160, Start Num: 6
Candidate Starts for PumpkinSpice_278:
(Start: 6 @127303 has 52 MA's), (10, 127234), (14, 127204),

Gene: Quaran19_14 Start: 7411, Stop: 7268, Start Num: 6
Candidate Starts for Quaran19_14:
(Start: 6 @7411 has 52 MA's), (10, 7342), (14, 7312),

Gene: Quaran19_275 Start: 126593, Stop: 126450, Start Num: 6
Candidate Starts for Quaran19_275:
(Start: 6 @126593 has 52 MA's), (10, 126524), (14, 126494),

Gene: SaltySpitoon_274 Start: 125675, Stop: 125532, Start Num: 6
Candidate Starts for SaltySpitoon_274:
(Start: 6 @125675 has 52 MA's), (10, 125606), (14, 125576),

Gene: SaltySpitoon_14 Start: 7411, Stop: 7268, Start Num: 6
Candidate Starts for SaltySpitoon_14:
(Start: 6 @7411 has 52 MA's), (10, 7342), (14, 7312),

Gene: Sollertia_15 Start: 7393, Stop: 7250, Start Num: 6
Candidate Starts for Sollertia_15:
(Start: 6 @7393 has 52 MA's), (14, 7294),

Gene: Sollertia_271 Start: 126283, Stop: 126140, Start Num: 6
Candidate Starts for Sollertia_271:

(Start: 6 @126283 has 52 MA's), (14, 126184),

Gene: Spelly_14 Start: 7411, Stop: 7268, Start Num: 6
Candidate Starts for Spelly_14:
(Start: 6 @7411 has 52 MA's), (10, 7342), (14, 7312),

Gene: Spelly_280 Start: 126215, Stop: 126072, Start Num: 6
Candidate Starts for Spelly_280:
(Start: 6 @126215 has 52 MA's), (10, 126146), (14, 126116),

Gene: Spilled_281 Start: 127490, Stop: 127347, Start Num: 6
Candidate Starts for Spilled_281:
(Start: 6 @127490 has 52 MA's), (10, 127421), (14, 127391),

Gene: Spilled_13 Start: 7021, Stop: 6878, Start Num: 6
Candidate Starts for Spilled_13:
(Start: 6 @7021 has 52 MA's), (10, 6952), (14, 6922),

Gene: Stanimal_270 Start: 126667, Stop: 126524, Start Num: 6
Candidate Starts for Stanimal_270:
(Start: 6 @126667 has 52 MA's), (14, 126568),

Gene: Stanimal_15 Start: 7393, Stop: 7250, Start Num: 6
Candidate Starts for Stanimal_15:
(Start: 6 @7393 has 52 MA's), (14, 7294),

Gene: StarPlatinum_283 Start: 128800, Stop: 128657, Start Num: 6
Candidate Starts for StarPlatinum_283:
(Start: 6 @128800 has 52 MA's), (9, 128737), (12, 128713), (14, 128701),

Gene: StarPlatinum_13 Start: 7113, Stop: 6970, Start Num: 6
Candidate Starts for StarPlatinum_13:
(Start: 6 @7113 has 52 MA's), (9, 7050), (12, 7026), (14, 7014),

Gene: Starbow_14 Start: 7411, Stop: 7268, Start Num: 6
Candidate Starts for Starbow_14:
(Start: 6 @7411 has 52 MA's), (9, 7348), (10, 7342), (14, 7312),

Gene: Starbow_271 Start: 126259, Stop: 126116, Start Num: 6
Candidate Starts for Starbow_271:
(Start: 6 @126259 has 52 MA's), (9, 126196), (10, 126190), (14, 126160),

Gene: TomSawyer_279 Start: 128783, Stop: 128640, Start Num: 6
Candidate Starts for TomSawyer_279:
(Start: 6 @128783 has 52 MA's), (10, 128714), (14, 128684),

Gene: TomSawyer_14 Start: 7004, Stop: 6861, Start Num: 6
Candidate Starts for TomSawyer_14:
(Start: 6 @7004 has 52 MA's), (10, 6935), (14, 6905),

Gene: Tomas_272 Start: 129691, Stop: 129548, Start Num: 6
Candidate Starts for Tomas_272:
(1, 129805), (3, 129769), (Start: 6 @129691 has 52 MA's), (10, 129622), (13, 129595),

Gene: Tomas_16 Start: 7984, Stop: 7841, Start Num: 6
Candidate Starts for Tomas_16:
(1, 8098), (3, 8062), (Start: 6 @7984 has 52 MA's), (10, 7915), (13, 7888),

Gene: Wipeout_13 Start: 7026, Stop: 6883, Start Num: 6
Candidate Starts for Wipeout_13:
(Start: 6 @7026 has 52 MA's), (10, 6957), (14, 6927),

Gene: Wipeout_266 Start: 127757, Stop: 127614, Start Num: 6
Candidate Starts for Wipeout_266:
(Start: 6 @127757 has 52 MA's), (10, 127688), (14, 127658),

Gene: Wofford_271 Start: 128338, Stop: 128195, Start Num: 6
Candidate Starts for Wofford_271:
(2, 128440), (3, 128410), (5, 128344), (Start: 6 @128338 has 52 MA's), (9, 128275), (10, 128269), (14, 128239),

Gene: Wofford_13 Start: 6545, Stop: 6402, Start Num: 6
Candidate Starts for Wofford_13:
(2, 6647), (3, 6617), (5, 6551), (Start: 6 @6545 has 52 MA's), (9, 6482), (10, 6476), (14, 6446),

Gene: Yaboi_276 Start: 126211, Stop: 126068, Start Num: 6
Candidate Starts for Yaboi_276:
(Start: 6 @126211 has 52 MA's), (14, 126112),

Gene: Yaboi_15 Start: 7393, Stop: 7250, Start Num: 6
Candidate Starts for Yaboi_15:
(Start: 6 @7393 has 52 MA's), (14, 7294),