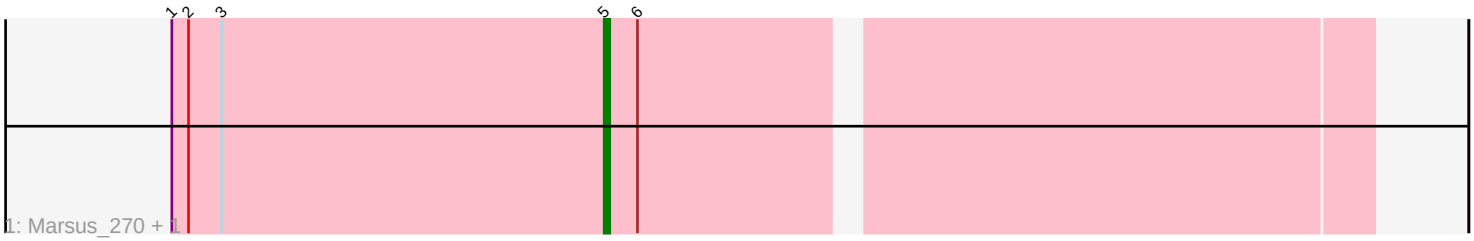
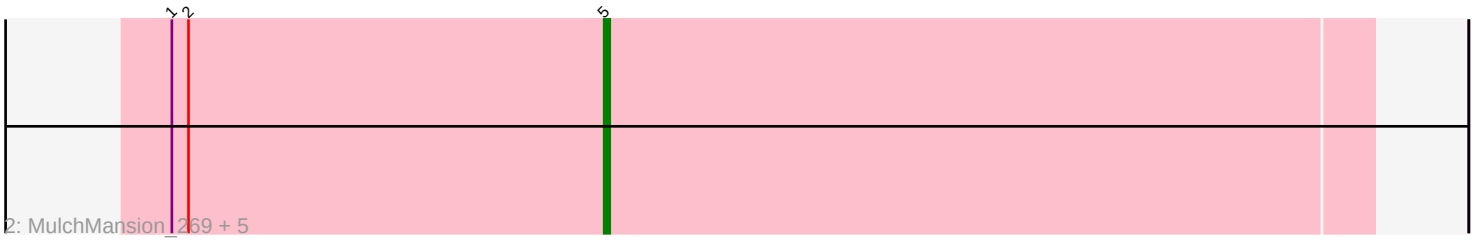
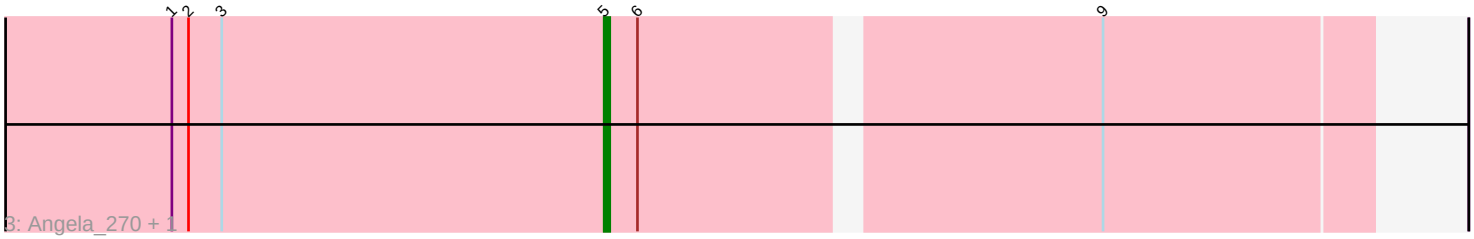
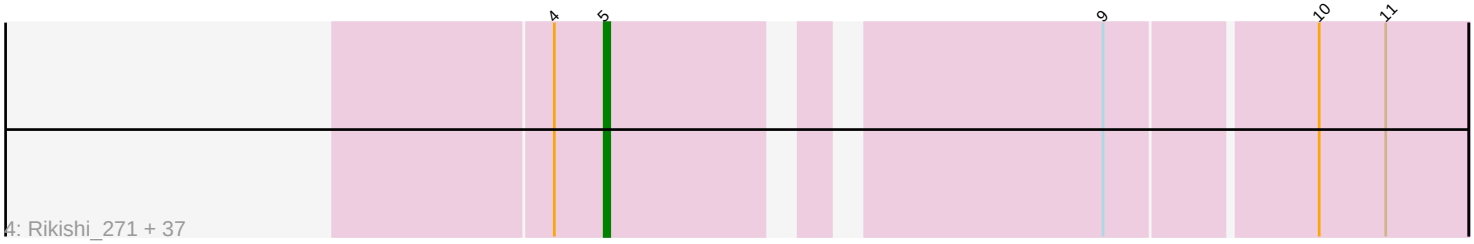
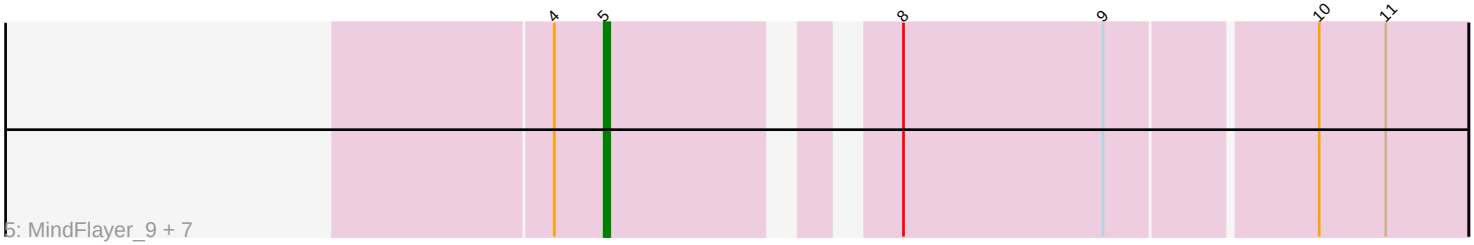
Pham 291198

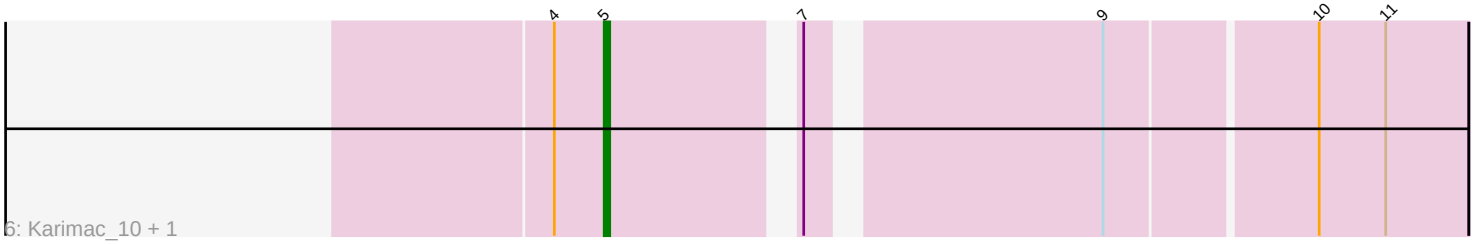

1
2
3
5
6
1: Marsus_270 + 1


1
2
5
2: MulchMansion_269 + 5


1
2
3
5
6
9
3: Angela_270 + 1


4
5
9
10
11
4: Rikishi_271 + 37


4
5
8
9
10
11
5: MindFlayer_9 + 7


4
5
7
9
10
11
6: Karimac_10 + 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 291198 Report

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

Pham number 291198 has 58 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Marsus_270, Marsus_13
• Track 2 : MulchMansion_269, LilMartin_265, LilMartin_13, Mildred21_13, MulchMansion_13, Mildred21_276
• Track 3 : Angela_270, Angela_13
• Track 4 : Rikishi_271, Bordeaux_10, Rikishi_9, CeilingFan_9, AcciDwight_10, Gibbi_9, Gibbi_280, StarPlatinum_279, CeilingFan_275, JimJam_278, Brizzy_9, Starbow_10, TomSawyer_10, Bordeaux_267, Spilled_277, Wipeout_262, Quaran19_271, JimJam_10, Battuta_10, Spelly_10, Quaran19_10, AcciDwight_280, KentuckyRacer_9, Starbow_267, StarPlatinum_9, Spelly_276, Birchlyn_267, TomSawyer_275, Spilled_9, Birchlyn_7, SaltySpitoon_270, Jollison_267, Jollison_10, Brizzy_267, KentuckyRacer_277, Wipeout_9, Battuta_267, SaltySpitoon_10
• Track 5 : MindFlayer_9, PumpkinSpice_10, IchabodCrane_262, Amabiko_274, Amabiko_10, IchabodCrane_9, MindFlayer_261, PumpkinSpice_274
• Track 6 : Karimac_10, Karimac_268

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

The start number called the most often in the published annotations is 5, it was called in 54 of the 54 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AcciDwight_10, AcciDwight_280, Amabiko_10, Amabiko_274, Angela_13, Angela_270, Battuta_10, Battuta_267, Birchlyn_267, Birchlyn_7, Bordeaux_10, Bordeaux_267, Brizzy_267, Brizzy_9, CeilingFan_275, CeilingFan_9, Gibbi_280, Gibbi_9, IchabodCrane_262, IchabodCrane_9, JimJam_10, JimJam_278, Jollison_10, Jollison_267, Karimac_10, Karimac_268, KentuckyRacer_277, KentuckyRacer_9, LilMartin_13, LilMartin_265, Marsus_13, Marsus_270, Mildred21_13, Mildred21_276, MindFlayer_261, MindFlayer_9, MulchMansion_13, MulchMansion_269, PumpkinSpice_10, PumpkinSpice_274, Quaran19_10, Quaran19_271, Rikishi_271, Rikishi_9, SaltySpitoon_10, SaltySpitoon_270, Spelly_10, Spelly_276, Spilled_277, Spilled_9, StarPlatinum_279, StarPlatinum_9, Starbow_10, Starbow_267, TomSawyer_10, TomSawyer_275, Wipeout_262, Wipeout_9,

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 5:
• Found in 58 of 58 (100.0%) of genes in pham
• Manual Annotations of this start: 54 of 54
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AcciDwight_10 (BE2), AcciDwight_280 (BE2), Amabiko_10 (BE2), Amabiko_274 (BE2), Angela_13 (BE1), Angela_270 (BE1), Battuta_10 (BE2), Battuta_267 (BE2), Birchlyn_267 (BE2), Birchlyn_7 (BE2), Bordeaux_10 (BE2), Bordeaux_267 (BE2), Brizzy_267 (BE2), Brizzy_9 (BE2), CeilingFan_275 (BE2), CeilingFan_9 (BE2), Gibbi_280 (BE2), Gibbi_9 (BE2), IchabodCrane_262 (BE2), IchabodCrane_9 (BE2), JimJam_10 (BE2), JimJam_278 (BE2), Jollison_10 (BE2), Jollison_267 (BE2), Karimac_10 (BE2), Karimac_268 (BE2), KentuckyRacer_277 (BE2), KentuckyRacer_9 (BE2), LilMartin_13 (BE1), LilMartin_265 (BE1), Marsus_13 (BE1), Marsus_270 (BE1), Mildred21_13 (BE1), Mildred21_276 (BE1), MindFlayer_261 (BE2), MindFlayer_9 (BE2), MulchMansion_13 (BE1), MulchMansion_269 (BE1), PumpkinSpice_10 (BE2), PumpkinSpice_274 (BE2), Quaran19_10 (BE2), Quaran19_271 (BE2), Rikishi_271 (BE2), Rikishi_9 (BE2), SaltySpitoon_10 (BE2), SaltySpitoon_270 (BE2), Spelly_10 (BE2), Spelly_276 (BE2), Spilled_277 (BE2), Spilled_9 (BE2), StarPlatinum_279 (BE2), StarPlatinum_9 (BE2), Starbow_10 (BE2), Starbow_267 (BE2), TomSawyer_10 (BE2), TomSawyer_275 (BE2), Wipeout_262 (BE2), Wipeout_9 (BE2),

Summary by clusters:

There are 2 clusters represented in this pham: BE2, BE1,

Info for manual annotations of cluster BE1:
•Start number 5 was manually annotated 10 times for cluster BE1.

Info for manual annotations of cluster BE2:
•Start number 5 was manually annotated 44 times for cluster BE2.

Gene Information:

Gene: AcciDwight_10 Start: 5726, Stop: 5586, Start Num: 5
Candidate Starts for AcciDwight_10:
(4, 5735), (Start: 5 @5726 has 54 MA's), (9, 5648), (10, 5612), (11, 5600),

Gene: AcciDwight_280 Start: 125822, Stop: 125682, Start Num: 5
Candidate Starts for AcciDwight_280:
(4, 125831), (Start: 5 @125822 has 54 MA's), (9, 125744), (10, 125708), (11, 125696),

Gene: Amabiko_274 Start: 124552, Stop: 124412, Start Num: 5

Candidate Starts for Amabiko_274:
(4, 124561), (Start: 5 @124552 has 54 MA's), (8, 124510), (9, 124474), (10, 124438), (11, 124426),

Gene: Amabiko_10 Start: 5726, Stop: 5586, Start Num: 5
Candidate Starts for Amabiko_10:
(4, 5735), (Start: 5 @5726 has 54 MA's), (8, 5684), (9, 5648), (10, 5612), (11, 5600),

Gene: Angela_270 Start: 129764, Stop: 129633, Start Num: 5
Candidate Starts for Angela_270:
(1, 129842), (2, 129839), (3, 129833), (Start: 5 @129764 has 54 MA's), (6, 129758), (9, 129680),

Gene: Angela_13 Start: 7361, Stop: 7230, Start Num: 5
Candidate Starts for Angela_13:
(1, 7439), (2, 7436), (3, 7430), (Start: 5 @7361 has 54 MA's), (6, 7355), (9, 7277),

Gene: Battuta_10 Start: 5726, Stop: 5586, Start Num: 5
Candidate Starts for Battuta_10:
(4, 5735), (Start: 5 @5726 has 54 MA's), (9, 5648), (10, 5612), (11, 5600),

Gene: Battuta_267 Start: 123881, Stop: 123741, Start Num: 5
Candidate Starts for Battuta_267:
(4, 123890), (Start: 5 @123881 has 54 MA's), (9, 123803), (10, 123767), (11, 123755),

Gene: Birchlyn_267 Start: 119670, Stop: 119530, Start Num: 5
Candidate Starts for Birchlyn_267:
(4, 119679), (Start: 5 @119670 has 54 MA's), (9, 119592), (10, 119556), (11, 119544),

Gene: Birchlyn_7 Start: 3579, Stop: 3439, Start Num: 5
Candidate Starts for Birchlyn_7:
(4, 3588), (Start: 5 @3579 has 54 MA's), (9, 3501), (10, 3465), (11, 3453),

Gene: Bordeaux_10 Start: 5726, Stop: 5586, Start Num: 5
Candidate Starts for Bordeaux_10:
(4, 5735), (Start: 5 @5726 has 54 MA's), (9, 5648), (10, 5612), (11, 5600),

Gene: Bordeaux_267 Start: 124464, Stop: 124324, Start Num: 5
Candidate Starts for Bordeaux_267:
(4, 124473), (Start: 5 @124464 has 54 MA's), (9, 124386), (10, 124350), (11, 124338),

Gene: Brizzy_9 Start: 5315, Stop: 5175, Start Num: 5
Candidate Starts for Brizzy_9:
(4, 5324), (Start: 5 @5315 has 54 MA's), (9, 5237), (10, 5201), (11, 5189),

Gene: Brizzy_267 Start: 124583, Stop: 124443, Start Num: 5
Candidate Starts for Brizzy_267:
(4, 124592), (Start: 5 @124583 has 54 MA's), (9, 124505), (10, 124469), (11, 124457),

Gene: CeilingFan_9 Start: 5337, Stop: 5197, Start Num: 5
Candidate Starts for CeilingFan_9:
(4, 5346), (Start: 5 @5337 has 54 MA's), (9, 5259), (10, 5223), (11, 5211),

Gene: CeilingFan_275 Start: 125944, Stop: 125804, Start Num: 5
Candidate Starts for CeilingFan_275:

(4, 125953), (Start: 5 @125944 has 54 MA's), (9, 125866), (10, 125830), (11, 125818),

Gene: Gibbi_9 Start: 5337, Stop: 5197, Start Num: 5
Candidate Starts for Gibbi_9:
(4, 5346), (Start: 5 @5337 has 54 MA's), (9, 5259), (10, 5223), (11, 5211),

Gene: Gibbi_280 Start: 125437, Stop: 125297, Start Num: 5
Candidate Starts for Gibbi_280:
(4, 125446), (Start: 5 @125437 has 54 MA's), (9, 125359), (10, 125323), (11, 125311),

Gene: IchabodCrane_262 Start: 123877, Stop: 123737, Start Num: 5
Candidate Starts for IchabodCrane_262:
(4, 123886), (Start: 5 @123877 has 54 MA's), (8, 123835), (9, 123799), (10, 123763), (11, 123751),

Gene: IchabodCrane_9 Start: 5334, Stop: 5194, Start Num: 5
Candidate Starts for IchabodCrane_9:
(4, 5343), (Start: 5 @5334 has 54 MA's), (8, 5292), (9, 5256), (10, 5220), (11, 5208),

Gene: JimJam_278 Start: 127261, Stop: 127121, Start Num: 5
Candidate Starts for JimJam_278:
(4, 127270), (Start: 5 @127261 has 54 MA's), (9, 127183), (10, 127147), (11, 127135),

Gene: JimJam_10 Start: 5725, Stop: 5585, Start Num: 5
Candidate Starts for JimJam_10:
(4, 5734), (Start: 5 @5725 has 54 MA's), (9, 5647), (10, 5611), (11, 5599),

Gene: Jollison_267 Start: 124401, Stop: 124261, Start Num: 5
Candidate Starts for Jollison_267:
(4, 124410), (Start: 5 @124401 has 54 MA's), (9, 124323), (10, 124287), (11, 124275),

Gene: Jollison_10 Start: 5726, Stop: 5586, Start Num: 5
Candidate Starts for Jollison_10:
(4, 5735), (Start: 5 @5726 has 54 MA's), (9, 5648), (10, 5612), (11, 5600),

Gene: Karimac_10 Start: 5728, Stop: 5588, Start Num: 5
Candidate Starts for Karimac_10:
(4, 5737), (Start: 5 @5728 has 54 MA's), (7, 5698), (9, 5650), (10, 5614), (11, 5602),

Gene: Karimac_268 Start: 125047, Stop: 124907, Start Num: 5
Candidate Starts for Karimac_268:
(4, 125056), (Start: 5 @125047 has 54 MA's), (7, 125017), (9, 124969), (10, 124933), (11, 124921),

Gene: KentuckyRacer_9 Start: 5338, Stop: 5198, Start Num: 5
Candidate Starts for KentuckyRacer_9:
(4, 5347), (Start: 5 @5338 has 54 MA's), (9, 5260), (10, 5224), (11, 5212),

Gene: KentuckyRacer_277 Start: 126789, Stop: 126649, Start Num: 5
Candidate Starts for KentuckyRacer_277:
(4, 126798), (Start: 5 @126789 has 54 MA's), (9, 126711), (10, 126675), (11, 126663),

Gene: LilMartin_265 Start: 128685, Stop: 128548, Start Num: 5
Candidate Starts for LilMartin_265:
(1, 128763), (2, 128760), (Start: 5 @128685 has 54 MA's),

Gene: LilMartin_13 Start: 7341, Stop: 7204, Start Num: 5
Candidate Starts for LilMartin_13:
(1, 7419), (2, 7416), (Start: 5 @7341 has 54 MA's),

Gene: Marsus_270 Start: 131042, Stop: 130911, Start Num: 5
Candidate Starts for Marsus_270:
(1, 131120), (2, 131117), (3, 131111), (Start: 5 @131042 has 54 MA's), (6, 131036),

Gene: Marsus_13 Start: 7338, Stop: 7207, Start Num: 5
Candidate Starts for Marsus_13:
(1, 7416), (2, 7413), (3, 7407), (Start: 5 @7338 has 54 MA's), (6, 7332),

Gene: Mildred21_13 Start: 6927, Stop: 6790, Start Num: 5
Candidate Starts for Mildred21_13:
(1, 7005), (2, 7002), (Start: 5 @6927 has 54 MA's),

Gene: Mildred21_276 Start: 128085, Stop: 127948, Start Num: 5
Candidate Starts for Mildred21_276:
(1, 128163), (2, 128160), (Start: 5 @128085 has 54 MA's),

Gene: MindFlayer_9 Start: 5336, Stop: 5196, Start Num: 5
Candidate Starts for MindFlayer_9:
(4, 5345), (Start: 5 @5336 has 54 MA's), (8, 5294), (9, 5258), (10, 5222), (11, 5210),

Gene: MindFlayer_261 Start: 123396, Stop: 123256, Start Num: 5
Candidate Starts for MindFlayer_261:
(4, 123405), (Start: 5 @123396 has 54 MA's), (8, 123354), (9, 123318), (10, 123282), (11, 123270),

Gene: MulchMansion_269 Start: 130319, Stop: 130182, Start Num: 5
Candidate Starts for MulchMansion_269:
(1, 130397), (2, 130394), (Start: 5 @130319 has 54 MA's),

Gene: MulchMansion_13 Start: 7341, Stop: 7204, Start Num: 5
Candidate Starts for MulchMansion_13:
(1, 7419), (2, 7416), (Start: 5 @7341 has 54 MA's),

Gene: PumpkinSpice_10 Start: 5726, Stop: 5586, Start Num: 5
Candidate Starts for PumpkinSpice_10:
(4, 5735), (Start: 5 @5726 has 54 MA's), (8, 5684), (9, 5648), (10, 5612), (11, 5600),

Gene: PumpkinSpice_274 Start: 125618, Stop: 125478, Start Num: 5
Candidate Starts for PumpkinSpice_274:
(4, 125627), (Start: 5 @125618 has 54 MA's), (8, 125576), (9, 125540), (10, 125504), (11, 125492),

Gene: Quaran19_271 Start: 124908, Stop: 124768, Start Num: 5
Candidate Starts for Quaran19_271:
(4, 124917), (Start: 5 @124908 has 54 MA's), (9, 124830), (10, 124794), (11, 124782),

Gene: Quaran19_10 Start: 5726, Stop: 5586, Start Num: 5
Candidate Starts for Quaran19_10:
(4, 5735), (Start: 5 @5726 has 54 MA's), (9, 5648), (10, 5612), (11, 5600),

Gene: Rikishi_271 Start: 125409, Stop: 125269, Start Num: 5
Candidate Starts for Rikishi_271:
(4, 125418), (Start: 5 @125409 has 54 MA's), (9, 125331), (10, 125295), (11, 125283),

Gene: Rikishi_9 Start: 5336, Stop: 5196, Start Num: 5
Candidate Starts for Rikishi_9:
(4, 5345), (Start: 5 @5336 has 54 MA's), (9, 5258), (10, 5222), (11, 5210),

Gene: SaltySpitoon_270 Start: 123990, Stop: 123850, Start Num: 5
Candidate Starts for SaltySpitoon_270:
(4, 123999), (Start: 5 @123990 has 54 MA's), (9, 123912), (10, 123876), (11, 123864),

Gene: SaltySpitoon_10 Start: 5726, Stop: 5586, Start Num: 5
Candidate Starts for SaltySpitoon_10:
(4, 5735), (Start: 5 @5726 has 54 MA's), (9, 5648), (10, 5612), (11, 5600),

Gene: Spelly_10 Start: 5726, Stop: 5586, Start Num: 5
Candidate Starts for Spelly_10:
(4, 5735), (Start: 5 @5726 has 54 MA's), (9, 5648), (10, 5612), (11, 5600),

Gene: Spelly_276 Start: 124530, Stop: 124390, Start Num: 5
Candidate Starts for Spelly_276:
(4, 124539), (Start: 5 @124530 has 54 MA's), (9, 124452), (10, 124416), (11, 124404),

Gene: Spilled_277 Start: 125805, Stop: 125665, Start Num: 5
Candidate Starts for Spilled_277:
(4, 125814), (Start: 5 @125805 has 54 MA's), (9, 125727), (10, 125691), (11, 125679),

Gene: Spilled_9 Start: 5336, Stop: 5196, Start Num: 5
Candidate Starts for Spilled_9:
(4, 5345), (Start: 5 @5336 has 54 MA's), (9, 5258), (10, 5222), (11, 5210),

Gene: StarPlatinum_279 Start: 127151, Stop: 127011, Start Num: 5
Candidate Starts for StarPlatinum_279:
(4, 127160), (Start: 5 @127151 has 54 MA's), (9, 127073), (10, 127037), (11, 127025),

Gene: StarPlatinum_9 Start: 5464, Stop: 5324, Start Num: 5
Candidate Starts for StarPlatinum_9:
(4, 5473), (Start: 5 @5464 has 54 MA's), (9, 5386), (10, 5350), (11, 5338),

Gene: Starbow_10 Start: 5726, Stop: 5586, Start Num: 5
Candidate Starts for Starbow_10:
(4, 5735), (Start: 5 @5726 has 54 MA's), (9, 5648), (10, 5612), (11, 5600),

Gene: Starbow_267 Start: 124574, Stop: 124434, Start Num: 5
Candidate Starts for Starbow_267:
(4, 124583), (Start: 5 @124574 has 54 MA's), (9, 124496), (10, 124460), (11, 124448),

Gene: TomSawyer_10 Start: 5320, Stop: 5180, Start Num: 5
Candidate Starts for TomSawyer_10:
(4, 5329), (Start: 5 @5320 has 54 MA's), (9, 5242), (10, 5206), (11, 5194),

Gene: TomSawyer_275 Start: 127099, Stop: 126959, Start Num: 5

Candidate Starts for TomSawyer_275:
(4, 127108), (Start: 5 @127099 has 54 MA's), (9, 127021), (10, 126985), (11, 126973),

Gene: Wipeout_262 Start: 126072, Stop: 125932, Start Num: 5
Candidate Starts for Wipeout_262:
(4, 126081), (Start: 5 @126072 has 54 MA's), (9, 125994), (10, 125958), (11, 125946),

Gene: Wipeout_9 Start: 5341, Stop: 5201, Start Num: 5
Candidate Starts for Wipeout_9:
(4, 5350), (Start: 5 @5341 has 54 MA's), (9, 5263), (10, 5227), (11, 5215),