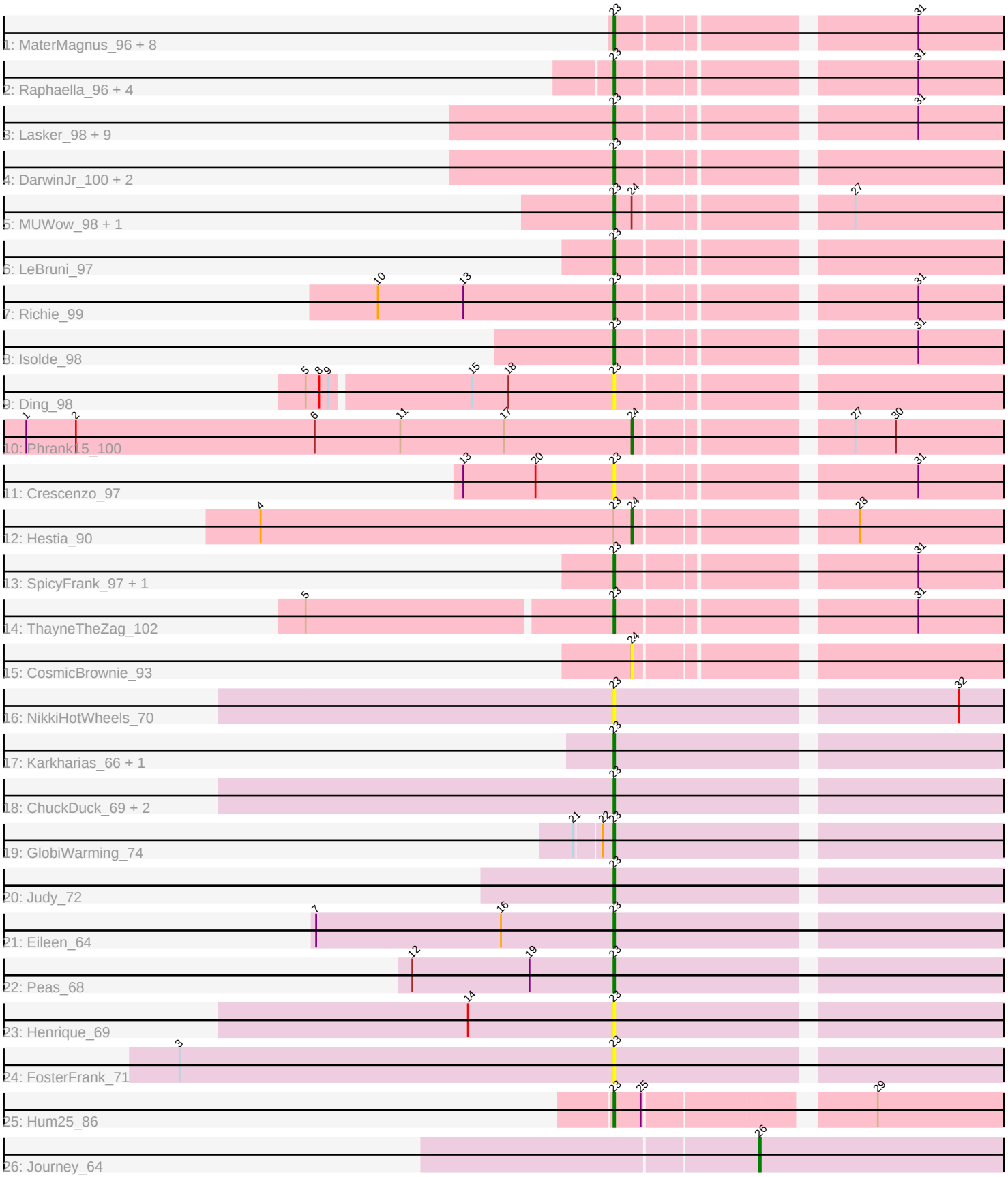
Pham 296628


1: MaterMagnus_96 + 8
2: Raphaella_96 + 4
3: Lasker_98 + 9
4: DarwinJr_100 + 2
5: MUWow_98 + 1
6: LeBruni_97
7: Richie_99
8: Isolde_98
9: Ding_98
10: Phrank15_100
11: Crescenzo_97
12: Hestia_90
13: SpicyFrank_97 + 1
14: ThayneTheZag_102
15: CosmicBrownie_93
16: NikkiHotWheels_70
17: Karkharias_66 + 1
18: ChuckDuck_69 + 2
19: GlobiWarming_74
20: Judy_72
21: Eileen_64
22: Peas_68
23: Henrique_69
24: FosterFrank_71
25: Hum25_86
26: Journey_64

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 296628 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296628 has 54 members, 13 are drafts.

Phages represented in each track:
• Track 1 : MaterMagnus_96, Tiff81_90, EvePickles_96, BenchScraper_96, BillyTP_96, Hillester_99, RadFad_100, MurphyJoseph_92, Auxilium_93
• Track 2 : Raphaella_96, AdaS_94, YoungHarleezy_97, Windest_101, JellyBread_95
• Track 3 : Lasker_98, Globfish_96, GumGum_103, Faja_96, Lawnathon_100, Sashimi_96, BlueShadow_92, CookieBear_95, BasketStar_96, SonDevVon_104
• Track 4 : DarwinJr_100, MidnightRain_102, Kabloowy_97
• Track 5 : MUWow_98, Anekin_95
• Track 6 : LeBruni_97
• Track 7 : Richie_99
• Track 8 : Isolde_98
• Track 9 : Ding_98
• Track 10 : Phrank15_100
• Track 11 : Crescenzo_97
• Track 12 : Hestia_90
• Track 13 : SpicyFrank_97, Seahorse_101
• Track 14 : ThayneTheZag_102
• Track 15 : CosmicBrownie_93
• Track 16 : NikkiHotWheels_70
• Track 17 : Karkharias_66, Bridgette_71
• Track 18 : ChuckDuck_69, PeggyLeg03_70, KayMoney_68
• Track 19 : GlobiWarming_74
• Track 20 : Judy_72
• Track 21 : Eileen_64
• Track 22 : Peas_68
• Track 23 : Henrique_69
• Track 24 : FosterFrank_71
• Track 25 : Hum25_86
• Track 26 : Journey_64

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

The start number called the most often in the published annotations is 23, it was called in 38 of the 41 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AdaS_94, Anekin_95, Auxilium_93, BasketStar_96, BenchScraper_96, BillyTP_96, BlueShadow_92, Bridgette_71, ChuckDuck_69, CookieBear_95, Crescenzo_97, DarwinJr_100, Ding_98, Eileen_64, EvePickles_96, Faja_96, FosterFrank_71, Globfish_96, GlobiWarming_74, GumGum_103, Henrique_69, Hillester_99, Hum25_86, Isolde_98, JellyBread_95, Judy_72, Kabloowy_97, Karkharias_66, KayMoney_68, Lasker_98, Lawnathon_100, LeBruni_97, MUWow_98, MaterMagnus_96, MidnightRain_102, MurphyJoseph_92, NikkiHotWheels_70, Peas_68, PeggyLeg03_70, RadFad_100, Raphaella_96, Richie_99, Sashimi_96, Seahorse_101, SonDevVon_104, SpicyFrank_97, ThayneTheZag_102, Tiff81_90, Windest_101, YoungHarleezy_97,

Genes that have the "Most Annotated" start but do not call it:
• Hestia_90,

Genes that do not have the "Most Annotated" start:
• CosmicBrownie_93, Journey_64, Phrank15_100,

Summary by start number:

Start 23:
• Found in 51 of 54 (94.4%) of genes in pham
• Manual Annotations of this start: 38 of 41
• Called 98.0% of time when present
• Phage (with cluster) where this start called: AdaS_94 (AY), Anekin_95 (AY), Auxilium_93 (AY), BasketStar_96 (AY), BenchScraper_96 (AY), BillyTP_96 (AY), BlueShadow_92 (AY), Bridgette_71 (FA), ChuckDuck_69 (FA), CookieBear_95 (AY), Crescenzo_97 (AY), DarwinJr_100 (AY), Ding_98 (AY), Eileen_64 (FA), EvePickles_96 (AY), Faja_96 (AY), FosterFrank_71 (FA), Globfish_96 (AY), GlobiWarming_74 (FA), GumGum_103 (AY), Henrique_69 (FA), Hillester_99 (AY), Hum25_86 (FQ), Isolde_98 (AY), JellyBread_95 (AY), Judy_72 (FA), Kabloowy_97 (AY), Karkharias_66 (FA), KayMoney_68 (FA), Lasker_98 (AY), Lawnathon_100 (AY), LeBruni_97 (AY), MUWow_98 (AY), MaterMagnus_96 (AY), MidnightRain_102 (AY), MurphyJoseph_92 (AY), NikkiHotWheels_70 (FA), Peas_68 (FA), PeggyLeg03_70 (FA), RadFad_100 (AY), Raphaella_96 (AY), Richie_99 (AY), Sashimi_96 (AY), Seahorse_101 (AY), SonDevVon_104 (AY), SpicyFrank_97 (AY), ThayneTheZag_102 (AY), Tiff81_90 (AY), Windest_101 (AY), YoungHarleezy_97 (AY),

Start 24:
• Found in 5 of 54 (9.3%) of genes in pham
• Manual Annotations of this start: 2 of 41
• Called 60.0% of time when present
• Phage (with cluster) where this start called: CosmicBrownie_93 (AY), Hestia_90 (AY), Phrank15_100 (AY),

Start 26:
• Found in 1 of 54 (1.9%) of genes in pham
• Manual Annotations of this start: 1 of 41
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Journey_64 (N),

Summary by clusters:

There are 4 clusters represented in this pham: AY, FA, N, FQ,

Info for manual annotations of cluster AY:
•Start number 23 was manually annotated 28 times for cluster AY.
•Start number 24 was manually annotated 2 times for cluster AY.

Info for manual annotations of cluster FA:
•Start number 23 was manually annotated 9 times for cluster FA.

Info for manual annotations of cluster FQ:
•Start number 23 was manually annotated 1 time for cluster FQ.

Info for manual annotations of cluster N:
•Start number 26 was manually annotated 1 time for cluster N.

Gene Information:

Gene: AdaS_94 Start: 50303, Stop: 50629, Start Num: 23
Candidate Starts for AdaS_94:
(Start: 23 @50303 has 38 MA's), (31, 50483),

Gene: Anekin_95 Start: 52237, Stop: 52560, Start Num: 23
Candidate Starts for Anekin_95:
(Start: 23 @52237 has 38 MA's), (Start: 24 @52249 has 2 MA's), (27, 52375),

Gene: Auxilium_93 Start: 49043, Stop: 49363, Start Num: 23
Candidate Starts for Auxilium_93:
(Start: 23 @49043 has 38 MA's), (31, 49223),

Gene: BasketStar_96 Start: 52523, Stop: 52843, Start Num: 23
Candidate Starts for BasketStar_96:
(Start: 23 @52523 has 38 MA's), (31, 52703),

Gene: BenchScraper_96 Start: 50794, Stop: 51114, Start Num: 23
Candidate Starts for BenchScraper_96:
(Start: 23 @50794 has 38 MA's), (31, 50974),

Gene: BillyTP_96 Start: 52593, Stop: 52919, Start Num: 23
Candidate Starts for BillyTP_96:
(Start: 23 @52593 has 38 MA's), (31, 52773),

Gene: BlueShadow_92 Start: 52029, Stop: 52349, Start Num: 23
Candidate Starts for BlueShadow_92:
(Start: 23 @52029 has 38 MA's), (31, 52209),

Gene: Bridgette_71 Start: 42699, Stop: 43043, Start Num: 23
Candidate Starts for Bridgette_71:
(Start: 23 @42699 has 38 MA's),

Gene: ChuckDuck_69 Start: 42418, Stop: 42762, Start Num: 23

Candidate Starts for ChuckDuck_69:
(Start: 23 @42418 has 38 MA's),

Gene: CookieBear_95 Start: 51777, Stop: 52097, Start Num: 23
Candidate Starts for CookieBear_95:
(Start: 23 @51777 has 38 MA's), (31, 51957),

Gene: CosmicBrownie_93 Start: 50511, Stop: 50822, Start Num: 24
Candidate Starts for CosmicBrownie_93:
(Start: 24 @50511 has 2 MA's),

Gene: Crescenzo_97 Start: 52946, Stop: 53266, Start Num: 23
Candidate Starts for Crescenzo_97:
(13, 52847), (20, 52895), (Start: 23 @52946 has 38 MA's), (31, 53126),

Gene: DarwinJr_100 Start: 53274, Stop: 53627, Start Num: 23
Candidate Starts for DarwinJr_100:
(Start: 23 @53274 has 38 MA's),

Gene: Ding_98 Start: 52235, Stop: 52555, Start Num: 23
Candidate Starts for Ding_98:
(5, 52037), (8, 52046), (9, 52052), (15, 52142), (18, 52166), (Start: 23 @52235 has 38 MA's),

Gene: Eileen_64 Start: 40750, Stop: 41094, Start Num: 23
Candidate Starts for Eileen_64:
(7, 40555), (16, 40678), (Start: 23 @40750 has 38 MA's),

Gene: EvePickles_96 Start: 52994, Stop: 53314, Start Num: 23
Candidate Starts for EvePickles_96:
(Start: 23 @52994 has 38 MA's), (31, 53174),

Gene: Faja_96 Start: 52066, Stop: 52386, Start Num: 23
Candidate Starts for Faja_96:
(Start: 23 @52066 has 38 MA's), (31, 52246),

Gene: FosterFrank_71 Start: 42119, Stop: 42463, Start Num: 23
Candidate Starts for FosterFrank_71:
(3, 41831), (Start: 23 @42119 has 38 MA's),

Gene: Globfish_96 Start: 50972, Stop: 51292, Start Num: 23
Candidate Starts for Globfish_96:
(Start: 23 @50972 has 38 MA's), (31, 51152),

Gene: GlobiWarming_74 Start: 42547, Stop: 42891, Start Num: 23
Candidate Starts for GlobiWarming_74:
(21, 42526), (22, 42541), (Start: 23 @42547 has 38 MA's),

Gene: GumGum_103 Start: 53268, Stop: 53588, Start Num: 23
Candidate Starts for GumGum_103:
(Start: 23 @53268 has 38 MA's), (31, 53448),

Gene: Henrique_69 Start: 42189, Stop: 42533, Start Num: 23
Candidate Starts for Henrique_69:

(14, 42093), (Start: 23 @42189 has 38 MA's),

Gene: Hestia_90 Start: 50238, Stop: 50558, Start Num: 24
Candidate Starts for Hestia_90:
(4, 49992), (Start: 23 @50226 has 38 MA's), (Start: 24 @50238 has 2 MA's), (28, 50367),

Gene: Hillester_99 Start: 52313, Stop: 52633, Start Num: 23
Candidate Starts for Hillester_99:
(Start: 23 @52313 has 38 MA's), (31, 52493),

Gene: Hum25_86 Start: 42285, Stop: 42626, Start Num: 23
Candidate Starts for Hum25_86:
(Start: 23 @42285 has 38 MA's), (25, 42303), (29, 42438),

Gene: Isolde_98 Start: 52809, Stop: 53129, Start Num: 23
Candidate Starts for Isolde_98:
(Start: 23 @52809 has 38 MA's), (31, 52989),

Gene: JellyBread_95 Start: 53015, Stop: 53341, Start Num: 23
Candidate Starts for JellyBread_95:
(Start: 23 @53015 has 38 MA's), (31, 53195),

Gene: Journey_64 Start: 41500, Stop: 41799, Start Num: 26
Candidate Starts for Journey_64:
(Start: 26 @41500 has 1 MA's),

Gene: Judy_72 Start: 43025, Stop: 43369, Start Num: 23
Candidate Starts for Judy_72:
(Start: 23 @43025 has 38 MA's),

Gene: Kabloowy_97 Start: 52731, Stop: 53084, Start Num: 23
Candidate Starts for Kabloowy_97:
(Start: 23 @52731 has 38 MA's),

Gene: Karkharias_66 Start: 42195, Stop: 42539, Start Num: 23
Candidate Starts for Karkharias_66:
(Start: 23 @42195 has 38 MA's),

Gene: KayMoney_68 Start: 42631, Stop: 42975, Start Num: 23
Candidate Starts for KayMoney_68:
(Start: 23 @42631 has 38 MA's),

Gene: Lasker_98 Start: 53398, Stop: 53718, Start Num: 23
Candidate Starts for Lasker_98:
(Start: 23 @53398 has 38 MA's), (31, 53578),

Gene: Lawnathon_100 Start: 52639, Stop: 52959, Start Num: 23
Candidate Starts for Lawnathon_100:
(Start: 23 @52639 has 38 MA's), (31, 52819),

Gene: LeBruni_97 Start: 51926, Stop: 52246, Start Num: 23
Candidate Starts for LeBruni_97:
(Start: 23 @51926 has 38 MA's),

Gene: MUWow_98 Start: 53802, Stop: 54125, Start Num: 23
Candidate Starts for MUWow_98:
(Start: 23 @53802 has 38 MA's), (Start: 24 @53814 has 2 MA's), (27, 53940),

Gene: MaterMagnus_96 Start: 52654, Stop: 52974, Start Num: 23
Candidate Starts for MaterMagnus_96:
(Start: 23 @52654 has 38 MA's), (31, 52834),

Gene: MidnightRain_102 Start: 53249, Stop: 53569, Start Num: 23
Candidate Starts for MidnightRain_102:
(Start: 23 @53249 has 38 MA's),

Gene: MurphyJoseph_92 Start: 50348, Stop: 50668, Start Num: 23
Candidate Starts for MurphyJoseph_92:
(Start: 23 @50348 has 38 MA's), (31, 50528),

Gene: NikkiHotWheels_70 Start: 41859, Stop: 42203, Start Num: 23
Candidate Starts for NikkiHotWheels_70:
(Start: 23 @41859 has 38 MA's), (32, 42075),

Gene: Peas_68 Start: 43688, Stop: 44032, Start Num: 23
Candidate Starts for Peas_68:
(12, 43556), (19, 43634), (Start: 23 @43688 has 38 MA's),

Gene: PeggyLeg03_70 Start: 42854, Stop: 43198, Start Num: 23
Candidate Starts for PeggyLeg03_70:
(Start: 23 @42854 has 38 MA's),

Gene: Phrank15_100 Start: 52150, Stop: 52461, Start Num: 24
Candidate Starts for Phrank15_100:
(1, 51760), (2, 51793), (6, 51952), (11, 52009), (17, 52078), (Start: 24 @52150 has 2 MA's), (27, 52276), (30, 52303),

Gene: RadFad_100 Start: 52313, Stop: 52633, Start Num: 23
Candidate Starts for RadFad_100:
(Start: 23 @52313 has 38 MA's), (31, 52493),

Gene: Raphaella_96 Start: 51282, Stop: 51608, Start Num: 23
Candidate Starts for Raphaella_96:
(Start: 23 @51282 has 38 MA's), (31, 51462),

Gene: Richie_99 Start: 53442, Stop: 53762, Start Num: 23
Candidate Starts for Richie_99:
(10, 53286), (13, 53343), (Start: 23 @53442 has 38 MA's), (31, 53622),

Gene: Sashimi_96 Start: 51797, Stop: 52117, Start Num: 23
Candidate Starts for Sashimi_96:
(Start: 23 @51797 has 38 MA's), (31, 51977),

Gene: Seahorse_101 Start: 56066, Stop: 56386, Start Num: 23
Candidate Starts for Seahorse_101:
(Start: 23 @56066 has 38 MA's), (31, 56246),

Gene: SonDevVon_104 Start: 52766, Stop: 53086, Start Num: 23
Candidate Starts for SonDevVon_104:
(Start: 23 @52766 has 38 MA's), (31, 52946),

Gene: SpicyFrank_97 Start: 51851, Stop: 52171, Start Num: 23
Candidate Starts for SpicyFrank_97:
(Start: 23 @51851 has 38 MA's), (31, 52031),

Gene: ThayneTheZag_102 Start: 53366, Stop: 53686, Start Num: 23
Candidate Starts for ThayneTheZag_102:
(5, 53168), (Start: 23 @53366 has 38 MA's), (31, 53546),

Gene: Tiff81_90 Start: 50115, Stop: 50435, Start Num: 23
Candidate Starts for Tiff81_90:
(Start: 23 @50115 has 38 MA's), (31, 50295),

Gene: Windest_101 Start: 51370, Stop: 51690, Start Num: 23
Candidate Starts for Windest_101:
(Start: 23 @51370 has 38 MA's), (31, 51550),

Gene: YoungHarleezy_97 Start: 52603, Stop: 52923, Start Num: 23
Candidate Starts for YoungHarleezy_97:
(Start: 23 @52603 has 38 MA's), (31, 52783),