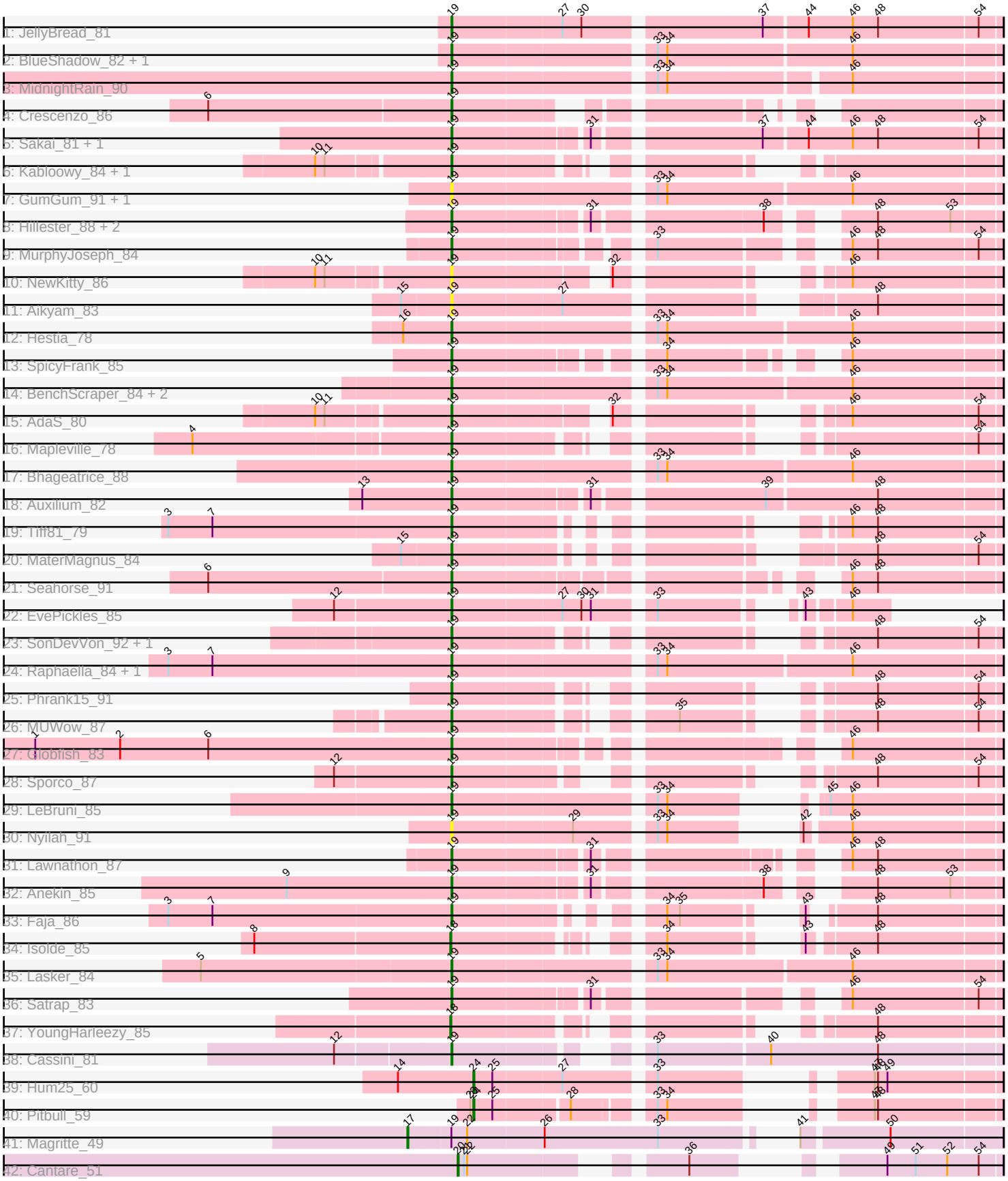
Pham 347701


1: JellyBread_81
2: BlueShadow_82 + 1
3: MidnightRain_90
4: Crescenzo_86
5: Sakai_81 + 1
6: Kabloowy_84 + 1
7: GumGum_91 + 1
8: Hillester_88 + 2
9: MurphyJoseph_84
10: NewKitty_86
11: Aikyam_83
12: Hestia_78
13: SpicyFrank_85
14: BenchScraper_84 + 2
15: AdaS_80
16: Mapleville_78
17: Bhageatrice_88
18: Auxilium_82
19: Tiff81_79
20: MaterMagnus_84
21: Seahorse_91
22: EvePickles_85
23: SonDevVon_92 + 1
24: Raphaella_84 + 1
25: Phrank15_91
26: MUWow_87
27: Globfish_83
28: Sporco_87
29: LeBruni_85
30: Nyilah_91
31: Lawnathon_87
32: Anekin_85
33: Faja_86
34: Isolde_85
35: Lasker_84
36: Satrap_83
37: YoungHarleezy_85
38: Cassini_81
39: Hum25_60
40: Pitbull_59
41: Magritte_49
42: Cantare_51

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 347701 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347701 has 52 members, 8 are drafts.

Phages represented in each track:
- Track 1 : JellyBread_81
- Track 2 : BlueShadow_82, BillyTP_85
- Track 3 : MidnightRain_90
- Track 4 : Crescenzo_86
- Track 5 : Sakai_81, Gorpy_82
- Track 6 : Kabloowy_84, DarwinJr_88
- Track 7 : GumGum_91, CosmicBrownie_83
- Track 8 : Hillester_88, RadFad_89, BasketStar_84
- Track 9 : MurphyJoseph_84
- Track 10 : NewKitty_86
- Track 11 : Aikyam_83
- Track 12 : Hestia_78
- Track 13 : SpicyFrank_85
- Track 14 : BenchScraper_84, Windest_88, Richie_87
- Track 15 : AdaS_80
- Track 16 : Mapleville_78
- Track 17 : Bhageatrice_88
- Track 18 : Auxilium_82
- Track 19 : Tiff81_79
- Track 20 : MaterMagnus_84
- Track 21 : Seahorse_91
- Track 22 : EvePickles_85
- Track 23 : SonDevVon_92, CookieBear_83
- Track 24 : Raphaella_84, Vopal_85
- Track 25 : Phrank15_91
- Track 26 : MUWow_87
- Track 27 : Globfish_83
- Track 28 : Sporco_87
- Track 29 : LeBruni_85
- Track 30 : Nyilah_91
- Track 31 : Lawnathon_87
- Track 32 : Anekin_85
- Track 33 : Faja_86
- Track 34 : Isolde_85
- Track 35 : Lasker_84
- Track 36 : Satrap_83
- Track 37 : YoungHarleezy_85

• Track 38 : Cassini_81
• Track 39 : Hum25_60
• Track 40 : Pitbull_59
• Track 41 : Magritte_49
• Track 42 : Cantare_51

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

The start number called the most often in the published annotations is 19, it was called in 38 of the 44 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AdaS_80, Aikyam_83, Anekin_85, Auxilium_82, BasketStar_84, BenchScraper_84, Bhageatrice_88, BillyTP_85, BlueShadow_82, Cassini_81, CookieBear_83, CosmicBrownie_83, Crescenzo_86, DarwinJr_88, EvePickles_85, Faja_86, Globfish_83, Gorpy_82, GumGum_91, Hestia_78, Hillester_88, JellyBread_81, Kabloowy_84, Lasker_84, Lawnathon_87, LeBruni_85, MUWow_87, Mapleville_78, MaterMagnus_84, MidnightRain_90, MurphyJoseph_84, NewKitty_86, Nyilah_91, Phrank15_91, RadFad_89, Raphaella_84, Richie_87, Sakai_81, Satrap_83, Seahorse_91, SonDevVon_92, SpicyFrank_85, Sporco_87, Tiff81_79, Vopal_85, Windest_88,

Genes that have the "Most Annotated" start but do not call it:
• Magritte_49,

Genes that do not have the "Most Annotated" start:
• Cantare_51, Hum25_60, Isolde_85, Pitbull_59, YoungHarleezy_85,

Summary by start number:

Start 17:
• Found in 1 of 52 (1.9%) of genes in pham
• Manual Annotations of this start: 1 of 44
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Magritte_49 (singleton),

Start 18:
• Found in 2 of 52 (3.8%) of genes in pham
• Manual Annotations of this start: 2 of 44
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Isolde_85 (AY), YoungHarleezy_85 (AY),

Start 19:
• Found in 47 of 52 (90.4%) of genes in pham
• Manual Annotations of this start: 38 of 44
• Called 97.9% of time when present
• Phage (with cluster) where this start called: AdaS_80 (AY), Aikyam_83 (AY), Anekin_85 (AY), Auxilium_82 (AY), BasketStar_84 (AY), BenchScraper_84 (AY), Bhageatrice_88 (AY), BillyTP_85 (AY), BlueShadow_82 (AY), Cassini_81 (FN),

CookieBear_83 (AY), CosmicBrownie_83 (AY), Crescenzo_86 (AY), DarwinJr_88 (AY), EvePickles_85 (AY), Faja_86 (AY), Globfish_83 (AY), Gorpy_82 (AY), GumGum_91 (AY), Hestia_78 (AY), Hillester_88 (AY), JellyBread_81 (AY), Kabloowy_84 (AY), Lasker_84 (AY), Lawnathon_87 (AY), LeBruni_85 (AY), MUWow_87 (AY), Mapleville_78 (AY), MaterMagnus_84 (AY), MidnightRain_90 (AY), MurphyJoseph_84 (AY), NewKitty_86 (AY), Nyilah_91 (AY), Phrank15_91 (AY), RadFad_89 (AY), Raphaella_84 (AY), Richie_87 (AY), Sakai_81 (AY), Satrap_83 (AY), Seahorse_91 (AY), SonDevVon_92 (AY), SpicyFrank_85 (AY), Sporco_87 (AY), Tiff81_79 (AY), Vopal_85 (AY), Windest_88 (AY),

Start 20:
• Found in 1 of 52 (1.9%) of genes in pham
• Manual Annotations of this start: 1 of 44
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cantare_51 (singleton),

Start 24:
• Found in 2 of 52 (3.8%) of genes in pham
• Manual Annotations of this start: 2 of 44
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hum25_60 (FQ1), Pitbull_59 (FQ1),

Summary by clusters:

There are 4 clusters represented in this pham: AY, singleton, FQ1, FN,

Info for manual annotations of cluster AY:
•Start number 18 was manually annotated 2 times for cluster AY.
•Start number 19 was manually annotated 37 times for cluster AY.

Info for manual annotations of cluster FN:
•Start number 19 was manually annotated 1 time for cluster FN.

Info for manual annotations of cluster FQ1:
•Start number 24 was manually annotated 2 times for cluster FQ1.

Gene Information:

Gene: AdaS_80 Start: 44928, Stop: 45341, Start Num: 19
Candidate Starts for AdaS_80:
(10, 44811), (11, 44820), (Start: 19 @44928 has 38 MA's), (32, 45054), (46, 45204), (54, 45321),

Gene: Aikyam_83 Start: 45953, Stop: 46399, Start Num: 19
Candidate Starts for Aikyam_83:
(15, 45908), (Start: 19 @45953 has 38 MA's), (27, 46055), (48, 46286),

Gene: Anekin_85 Start: 48188, Stop: 48622, Start Num: 19
Candidate Starts for Anekin_85:
(9, 48032), (Start: 19 @48188 has 38 MA's), (31, 48305), (38, 48443), (48, 48509), (53, 48578),

Gene: Auxilium_82 Start: 45357, Stop: 45833, Start Num: 19

Candidate Starts for Auxilium_82:
(13, 45273), (Start: 19 @45357 has 38 MA's), (31, 45474), (39, 45618), (48, 45720),

Gene: BasketStar_84 Start: 47969, Stop: 48403, Start Num: 19
Candidate Starts for BasketStar_84:
(Start: 19 @47969 has 38 MA's), (31, 48086), (38, 48224), (48, 48290), (53, 48359),

Gene: BenchScraper_84 Start: 46314, Stop: 46808, Start Num: 19
Candidate Starts for BenchScraper_84:
(Start: 19 @46314 has 38 MA's), (33, 46491), (34, 46500), (46, 46671),

Gene: Bhageatrice_88 Start: 50590, Stop: 51084, Start Num: 19
Candidate Starts for Bhageatrice_88:
(Start: 19 @50590 has 38 MA's), (33, 50767), (34, 50776), (46, 50947),

Gene: BillyTP_85 Start: 48420, Stop: 48914, Start Num: 19
Candidate Starts for BillyTP_85:
(Start: 19 @48420 has 38 MA's), (33, 48597), (34, 48606), (46, 48777),

Gene: BlueShadow_82 Start: 47675, Stop: 48169, Start Num: 19
Candidate Starts for BlueShadow_82:
(Start: 19 @47675 has 38 MA's), (33, 47852), (34, 47861), (46, 48032),

Gene: Cantare_51 Start: 46110, Stop: 46487, Start Num: 20
Candidate Starts for Cantare_51:
(Start: 20 @46110 has 1 MA's), (21, 46116), (22, 46119), (36, 46278), (49, 46380), (51, 46407), (52, 46437), (54, 46467),

Gene: Cassini_81 Start: 46935, Stop: 47390, Start Num: 19
Candidate Starts for Cassini_81:
(12, 46830), (Start: 19 @46935 has 38 MA's), (33, 47073), (40, 47175), (48, 47277),

Gene: CookieBear_83 Start: 46991, Stop: 47392, Start Num: 19
Candidate Starts for CookieBear_83:
(Start: 19 @46991 has 38 MA's), (48, 47279), (54, 47372),

Gene: CosmicBrownie_83 Start: 46516, Stop: 47010, Start Num: 19
Candidate Starts for CosmicBrownie_83:
(Start: 19 @46516 has 38 MA's), (33, 46693), (34, 46702), (46, 46873),

Gene: Crescenzo_86 Start: 49356, Stop: 49757, Start Num: 19
Candidate Starts for Crescenzo_86:
(6, 49128), (Start: 19 @49356 has 38 MA's),

Gene: DarwinJr_88 Start: 49470, Stop: 49871, Start Num: 19
Candidate Starts for DarwinJr_88:
(10, 49353), (11, 49362), (Start: 19 @49470 has 38 MA's),

Gene: EvePickles_85 Start: 48837, Stop: 49178, Start Num: 19
Candidate Starts for EvePickles_85:
(12, 48729), (Start: 19 @48837 has 38 MA's), (27, 48939), (30, 48957), (31, 48966), (33, 49014), (43, 49107), (46, 49143),

Gene: Faja_86 Start: 48359, Stop: 48745, Start Num: 19
Candidate Starts for Faja_86:
(3, 48092), (7, 48134), (Start: 19 @48359 has 38 MA's), (34, 48506), (35, 48518), (43, 48587), (48, 48632),

Gene: Globfish_83 Start: 46114, Stop: 46545, Start Num: 19
Candidate Starts for Globfish_83:
(1, 45718), (2, 45799), (6, 45883), (Start: 19 @46114 has 38 MA's), (46, 46408),

Gene: Gorpy_82 Start: 48333, Stop: 48809, Start Num: 19
Candidate Starts for Gorpy_82:
(Start: 19 @48333 has 38 MA's), (31, 48450), (37, 48591), (44, 48630), (46, 48672), (48, 48696), (54, 48789),

Gene: GumGum_91 Start: 48480, Stop: 48974, Start Num: 19
Candidate Starts for GumGum_91:
(Start: 19 @48480 has 38 MA's), (33, 48657), (34, 48666), (46, 48837),

Gene: Hestia_78 Start: 45289, Stop: 45783, Start Num: 19
Candidate Starts for Hestia_78:
(16, 45244), (Start: 19 @45289 has 38 MA's), (33, 45466), (34, 45475), (46, 45646),

Gene: Hillester_88 Start: 48096, Stop: 48530, Start Num: 19
Candidate Starts for Hillester_88:
(Start: 19 @48096 has 38 MA's), (31, 48213), (38, 48351), (48, 48417), (53, 48486),

Gene: Hum25_60 Start: 34774, Stop: 35166, Start Num: 24
Candidate Starts for Hum25_60:
(14, 34702), (Start: 24 @34774 has 2 MA's), (25, 34792), (27, 34855), (33, 34930), (47, 35050), (48, 35053), (49, 35062),

Gene: Isolde_85 Start: 48621, Stop: 49019, Start Num: 18
Candidate Starts for Isolde_85:
(8, 48438), (Start: 18 @48621 has 2 MA's), (34, 48768), (43, 48849), (48, 48906),

Gene: JellyBread_81 Start: 47381, Stop: 47875, Start Num: 19
Candidate Starts for JellyBread_81:
(Start: 19 @47381 has 38 MA's), (27, 47483), (30, 47501), (37, 47657), (44, 47696), (46, 47738), (48, 47762), (54, 47855),

Gene: Kabloowy_84 Start: 48367, Stop: 48768, Start Num: 19
Candidate Starts for Kabloowy_84:
(10, 48250), (11, 48259), (Start: 19 @48367 has 38 MA's),

Gene: Lasker_84 Start: 48414, Stop: 48908, Start Num: 19
Candidate Starts for Lasker_84:
(5, 48180), (Start: 19 @48414 has 38 MA's), (33, 48591), (34, 48600), (46, 48771),

Gene: Lawnathon_87 Start: 47552, Stop: 47980, Start Num: 19
Candidate Starts for Lawnathon_87:
(Start: 19 @47552 has 38 MA's), (31, 47669), (46, 47843), (48, 47867),

Gene: LeBruni_85 Start: 47711, Stop: 48136, Start Num: 19

Candidate Starts for LeBruni_85:
(Start: 19 @47711 has 38 MA's), (33, 47888), (34, 47897), (45, 47978), (46, 47999),

Gene: MUWow_87 Start: 49154, Stop: 49555, Start Num: 19
Candidate Starts for MUWow_87:
(Start: 19 @49154 has 38 MA's), (35, 49316), (48, 49442), (54, 49535),

Gene: Magritte_49 Start: 48175, Stop: 48675, Start Num: 17
Candidate Starts for Magritte_49:
(Start: 17 @48175 has 1 MA's), (Start: 19 @48214 has 38 MA's), (22, 48229), (26, 48301), (33, 48409), (41, 48493), (50, 48571),

Gene: Mapleville_78 Start: 46363, Stop: 46764, Start Num: 19
Candidate Starts for Mapleville_78:
(4, 46129), (Start: 19 @46363 has 38 MA's), (54, 46744),

Gene: MaterMagnus_84 Start: 48125, Stop: 48532, Start Num: 19
Candidate Starts for MaterMagnus_84:
(15, 48080), (Start: 19 @48125 has 38 MA's), (48, 48419), (54, 48512),

Gene: MidnightRain_90 Start: 48881, Stop: 49366, Start Num: 19
Candidate Starts for MidnightRain_90:
(Start: 19 @48881 has 38 MA's), (33, 49058), (34, 49067), (46, 49229),

Gene: MurphyJoseph_84 Start: 46404, Stop: 46835, Start Num: 19
Candidate Starts for MurphyJoseph_84:
(Start: 19 @46404 has 38 MA's), (33, 46560), (46, 46698), (48, 46722), (54, 46815),

Gene: NewKitty_86 Start: 48783, Stop: 49196, Start Num: 19
Candidate Starts for NewKitty_86:
(10, 48666), (11, 48675), (Start: 19 @48783 has 38 MA's), (32, 48909), (46, 49059),

Gene: Nyilah_91 Start: 47700, Stop: 48131, Start Num: 19
Candidate Starts for Nyilah_91:
(Start: 19 @47700 has 38 MA's), (29, 47811), (33, 47877), (34, 47886), (42, 47955), (46, 47994),

Gene: Phrank15_91 Start: 48788, Stop: 49189, Start Num: 19
Candidate Starts for Phrank15_91:
(Start: 19 @48788 has 38 MA's), (48, 49076), (54, 49169),

Gene: Pitbull_59 Start: 33633, Stop: 34013, Start Num: 24
Candidate Starts for Pitbull_59:
(23, 33630), (Start: 24 @33633 has 2 MA's), (25, 33651), (28, 33717), (33, 33777), (34, 33786), (47, 33897), (48, 33900),

Gene: RadFad_89 Start: 48096, Stop: 48530, Start Num: 19
Candidate Starts for RadFad_89:
(Start: 19 @48096 has 38 MA's), (31, 48213), (38, 48351), (48, 48417), (53, 48486),

Gene: Raphaella_84 Start: 46653, Stop: 47147, Start Num: 19
Candidate Starts for Raphaella_84:
(3, 46386), (7, 46428), (Start: 19 @46653 has 38 MA's), (33, 46830), (34, 46839), (46, 47010),

Gene: Richie_87 Start: 48886, Stop: 49380, Start Num: 19
Candidate Starts for Richie_87:
(Start: 19 @48886 has 38 MA's), (33, 49063), (34, 49072), (46, 49243),

Gene: Sakai_81 Start: 47044, Stop: 47520, Start Num: 19
Candidate Starts for Sakai_81:
(Start: 19 @47044 has 38 MA's), (31, 47161), (37, 47302), (44, 47341), (46, 47383), (48, 47407), (54, 47500),

Gene: Satrap_83 Start: 47191, Stop: 47619, Start Num: 19
Candidate Starts for Satrap_83:
(Start: 19 @47191 has 38 MA's), (31, 47308), (46, 47482), (54, 47599),

Gene: Seahorse_91 Start: 52291, Stop: 52725, Start Num: 19
Candidate Starts for Seahorse_91:
(6, 52063), (Start: 19 @52291 has 38 MA's), (46, 52588), (48, 52612),

Gene: SonDevVon_92 Start: 47989, Stop: 48390, Start Num: 19
Candidate Starts for SonDevVon_92:
(Start: 19 @47989 has 38 MA's), (48, 48277), (54, 48370),

Gene: SpicyFrank_85 Start: 47210, Stop: 47635, Start Num: 19
Candidate Starts for SpicyFrank_85:
(Start: 19 @47210 has 38 MA's), (34, 47375), (46, 47498),

Gene: Sporco_87 Start: 48755, Stop: 49153, Start Num: 19
Candidate Starts for Sporco_87:
(12, 48647), (Start: 19 @48755 has 38 MA's), (48, 49040), (54, 49133),

Gene: Tiff81_79 Start: 45794, Stop: 46192, Start Num: 19
Candidate Starts for Tiff81_79:
(3, 45527), (7, 45569), (Start: 19 @45794 has 38 MA's), (46, 46055), (48, 46079),

Gene: Vopal_85 Start: 48719, Stop: 49213, Start Num: 19
Candidate Starts for Vopal_85:
(3, 48452), (7, 48494), (Start: 19 @48719 has 38 MA's), (33, 48896), (34, 48905), (46, 49076),

Gene: Windest_88 Start: 46371, Stop: 46865, Start Num: 19
Candidate Starts for Windest_88:
(Start: 19 @46371 has 38 MA's), (33, 46548), (34, 46557), (46, 46728),

Gene: YoungHarleezy_85 Start: 48259, Stop: 48660, Start Num: 18
Candidate Starts for YoungHarleezy_85:
(Start: 18 @48259 has 2 MA's), (48, 48547),