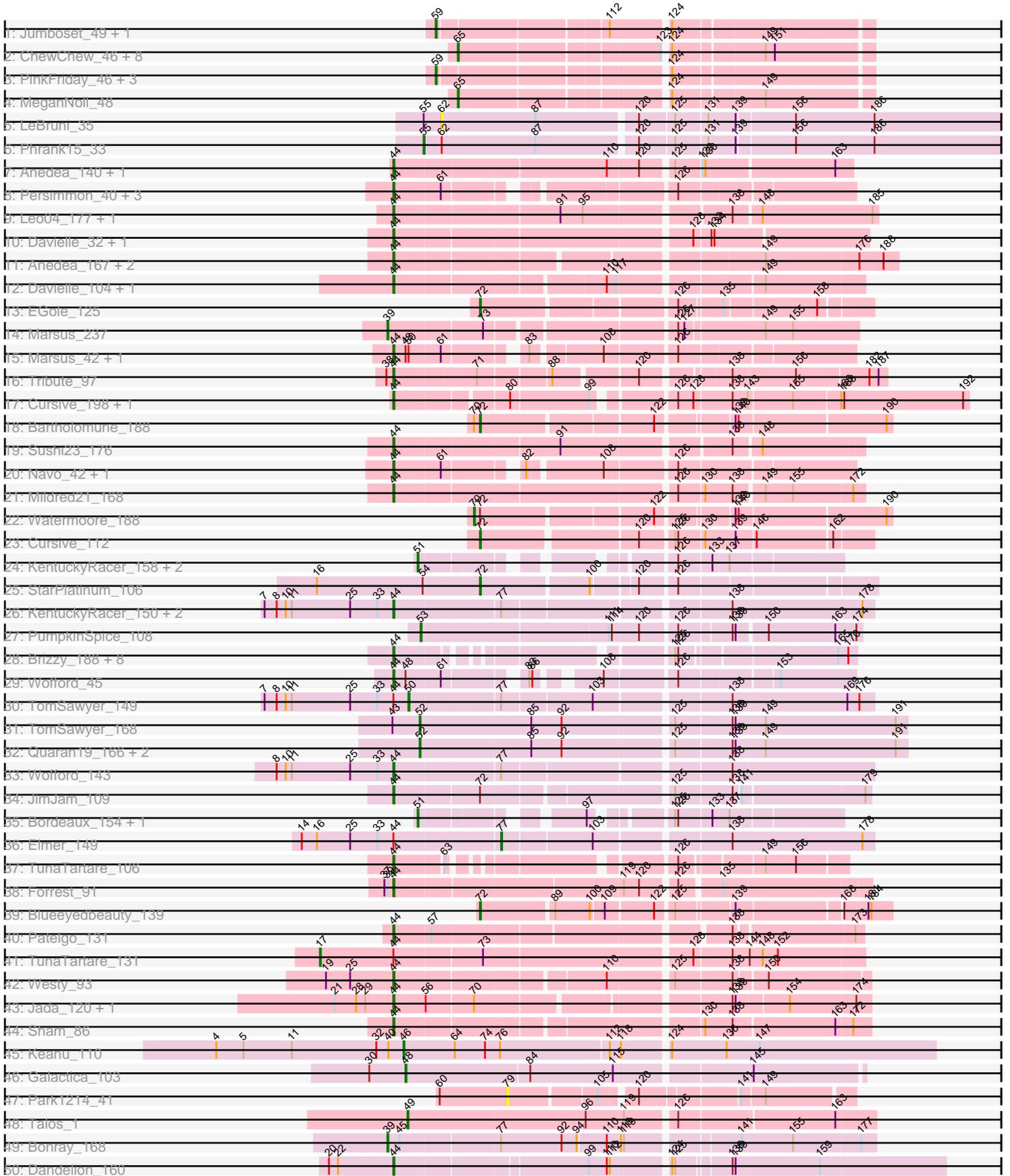
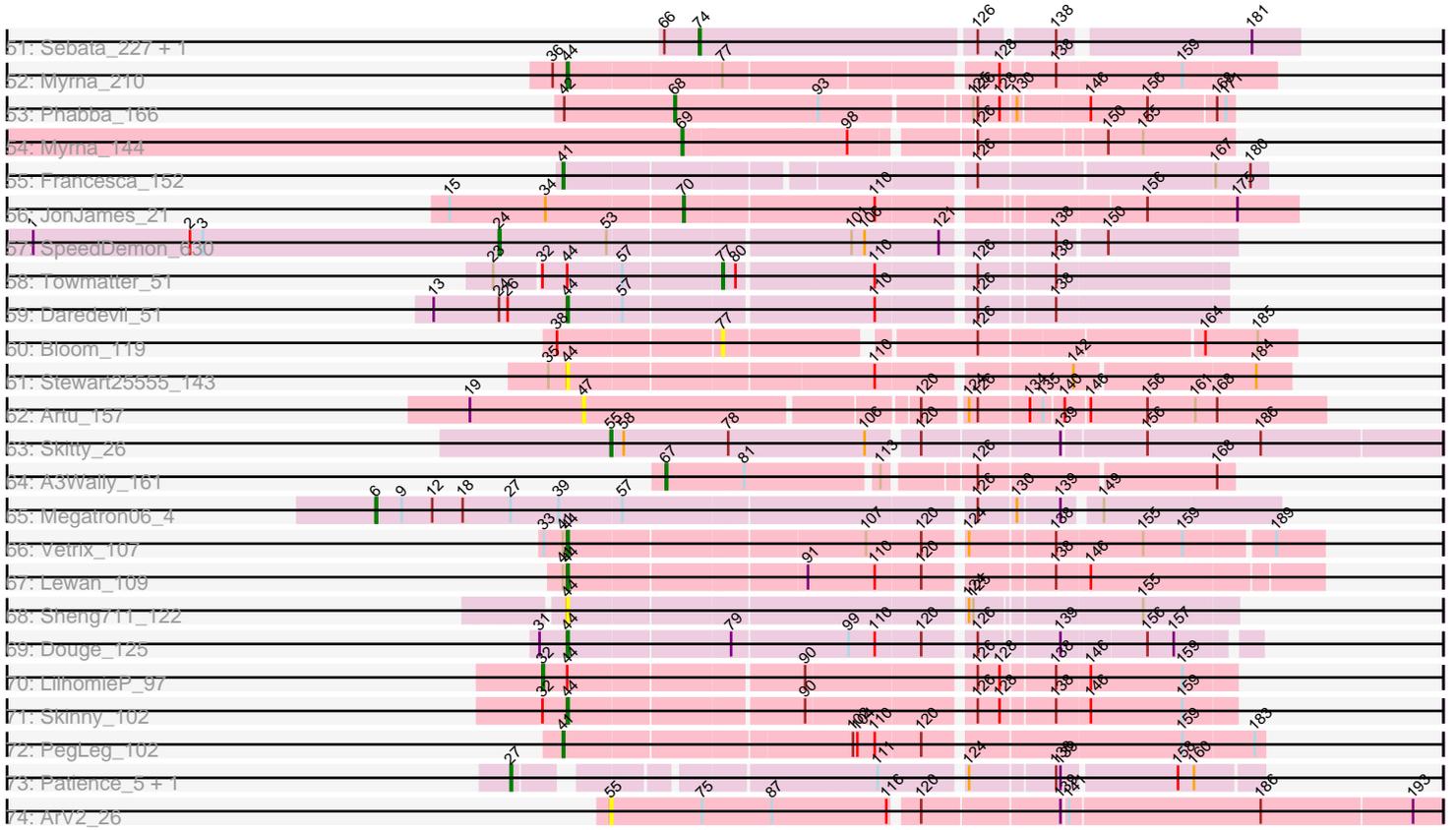


Pham 283630



Pham 283630



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 283630 Report

This analysis was run 02/23/26 on database version 636.

Pham number 283630 has 116 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Jumboset_49, Pterodactyl_46
- Track 2 : ChewChew_46, Bodacious_46, Wawa_48, Nancia_46, BigMack_46, AppleCider_48, Canowicakte_48, CristinaYang_46, Suppi_48
- Track 3 : PinkFriday_46, Wayne_49, Glenn_49, Kittykat_49
- Track 4 : MeganNoll_48
- Track 5 : LeBruni_35
- Track 6 : Phrank15_33
- Track 7 : Anedea_140, Mildred21_142
- Track 8 : Persimmon_40, Davielle_41, WhereRU_41, Leo04_45
- Track 9 : Leo04_177, Paradiddles_170
- Track 10 : Davielle_32, WhereRU_32
- Track 11 : Anedea_167, Riptide_160, Wofford_171
- Track 12 : Davielle_104, WhereRU_103
- Track 13 : EGole_125
- Track 14 : Marsus_237
- Track 15 : Marsus_42, Anedea_42
- Track 16 : Tribute_97
- Track 17 : Cursive_198, Cadmus_194
- Track 18 : Bartholomune_188
- Track 19 : Sushi23_176
- Track 20 : Navo_42, Braelyn_43
- Track 21 : Mildred21_168
- Track 22 : Watermoore_188
- Track 23 : Cursive_112
- Track 24 : KentuckyRacer_158, StarPlatinum_159, MulchMansion_147
- Track 25 : StarPlatinum_106
- Track 26 : KentuckyRacer_150, CeilingFan_148, JimJam_152
- Track 27 : PumpkinSpice_108
- Track 28 : Brizzy_188, JimJam_195, IchabodCrane_184, TomSawyer_193, Amabiko_192, Wipeout_181, Spilled_194, KentuckyRacer_193, Mugiwara_190
- Track 29 : Wofford_45
- Track 30 : TomSawyer_149
- Track 31 : TomSawyer_168
- Track 32 : Quarant19_166, Brizzy_163, Enygma_167
- Track 33 : Wofford_143
- Track 34 : JimJam_109
- Track 35 : Bordeaux_154, AcciDwight_163

- Track 36 : Elmer_149
- Track 37 : TunaTartare_106
- Track 38 : Forrest_91
- Track 39 : Blueeyedbeauty_139
- Track 40 : Patelgo_131
- Track 41 : TunaTartare_131
- Track 42 : Westy_93
- Track 43 : Jada_120, Forrest_124
- Track 44 : Sham_86
- Track 45 : Keanu_110
- Track 46 : Galactica_103
- Track 47 : Park1214_41
- Track 48 : Talos_1
- Track 49 : Bonray_168
- Track 50 : Dandelion_160
- Track 51 : Sebata_227, Salacia_226
- Track 52 : Myrna_210
- Track 53 : Phabba_166
- Track 54 : Myrna_144
- Track 55 : Francesca_152
- Track 56 : JonJames_21
- Track 57 : SpeedDemon_630
- Track 58 : Towmatter_51
- Track 59 : Daredevil_51
- Track 60 : Bloom_119
- Track 61 : Stewart25555_143
- Track 62 : Artu_157
- Track 63 : Skitty_26
- Track 64 : A3Wally_161
- Track 65 : Megatron06_4
- Track 66 : Vetrix_107
- Track 67 : Lewan_109
- Track 68 : Sheng711_122
- Track 69 : Douge_125
- Track 70 : LilhomieP_97
- Track 71 : Skinny_102
- Track 72 : PegLeg_102
- Track 73 : Patience_5, Labelle_5
- Track 74 : ArV2_26

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

The start number called the most often in the published annotations is 44, it was called in 53 of the 108 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Amabiko_192, Anedea_140, Anedea_167, Anedea_42, Braelyn_43, Brizzy_188, Cadmus_194, CeilingFan_148, Cursive_198, Dandelion_160, Daredevil_51, Davielle_104, Davielle_32, Davielle_41, Douge_125, Forrest_124, Forrest_91, IchabodCrane_184, Jada_120, JimJam_109, JimJam_152, JimJam_195,

KentuckyRacer_150, KentuckyRacer_193, Leo04_177, Leo04_45, Lewan_109, Marsus_42, Mildred21_142, Mildred21_168, Mugiwara_190, Myrna_210, Navo_42, Paradiddles_170, Patelgo_131, Persimmon_40, Riptide_160, Sham_86, Sheng711_122, Skinny_102, Spilled_194, Stewart25555_143, Sushi23_176, TomSawyer_193, Tribute_97, TunaTartare_106, Vetric_107, Westy_93, WhereRU_103, WhereRU_32, WhereRU_41, Wipeout_181, Wofford_143, Wofford_171, Wofford_45,

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

- Elmer_149, LilhomieP_97, TomSawyer_149, Towmatter_51, TunaTartare_131,

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

- A3Wally_161, AcciDwight_163, AppleCider_48, ArV2_26, Artu_157, Bartholomune_188, BigMack_46, Bloom_119, Blueeyedbeauty_139, Bodacious_46, Bonray_168, Bordeaux_154, Brizzy_163, Canowicakte_48, ChewChew_46, CristinaYang_46, Cursive_112, EGole_125, Enygma_167, Francesca_152, Galactica_103, Glenn_49, JonJames_21, Jumboset_49, Keanu_110, KentuckyRacer_158, Kittykat_49, Labelle_5, LeBruni_35, Marsus_237, MeganNoll_48, Megatron06_4, MulchMansion_147, Myrna_144, Nancia_46, Park1214_41, Patience_5, PegLeg_102, Phabba_166, Phrank15_33, PinkFriday_46, Pterodactyl_46, PumpkinSpice_108, Quarant19_166, Salacia_226, Sebata_227, Skitty_26, SpeedDemon_630, StarPlatinum_106, StarPlatinum_159, Suppi_48, Talos_1, TomSawyer_168, Watermoore_188, Wawa_48, Wayne_49,

Summary by start number:

Start 6:

- Found in 1 of 116 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 108
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Megatron06_4 (H1),

Start 17:

- Found in 1 of 116 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 108
- Called 100.0% of time when present
- Phage (with cluster) where this start called: TunaTartare_131 (BK1),

Start 24:

- Found in 2 of 116 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 108
- Called 50.0% of time when present
- Phage (with cluster) where this start called: SpeedDemon_630 (DL),

Start 27:

- Found in 3 of 116 (2.6%) of genes in pham
- Manual Annotations of this start: 2 of 108
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Labelle_5 (U), Patience_5 (U),

Start 32:

- Found in 4 of 116 (3.4%) of genes in pham
- Manual Annotations of this start: 1 of 108

- Called 25.0% of time when present
- Phage (with cluster) where this start called: LilhomieP_97 (M1),

Start 39:

- Found in 4 of 116 (3.4%) of genes in pham
- Manual Annotations of this start: 2 of 108
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Bonray_168 (C1), Marsus_237 (BE1),

Start 41:

- Found in 4 of 116 (3.4%) of genes in pham
- Manual Annotations of this start: 2 of 108
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Francesca_152 (CG), PegLeg_102 (M1),

Start 44:

- Found in 60 of 116 (51.7%) of genes in pham
- Manual Annotations of this start: 53 of 108
- Called 91.7% of time when present
- Phage (with cluster) where this start called: Amabiko_192 (BE2), Anedea_140 (BE1), Anedea_167 (BE1), Anedea_42 (BE1), Braelyn_43 (BE1), Brizzy_188 (BE2), Cadmus_194 (BE1), CeilingFan_148 (BE2), Cursive_198 (BE1), Dandelion_160 (C1), Daredevil_51 (DL), Davielle_104 (BE1), Davielle_32 (BE1), Davielle_41 (BE1), Douge_125 (L4), Forrest_124 (BK1), Forrest_91 (BK1), IchabodCrane_184 (BE2), Jada_120 (BK1), JimJam_109 (BE2), JimJam_152 (BE2), JimJam_195 (BE2), KentuckyRacer_150 (BE2), KentuckyRacer_193 (BE2), Leo04_177 (BE1), Leo04_45 (BE1), Lewan_109 (L2), Marsus_42 (BE1), Mildred21_142 (BE1), Mildred21_168 (BE1), Mugiwara_190 (BE2), Myrna_210 (C2), Navo_42 (BE1), Paradiddles_170 (BE1), Patelgo_131 (BK1), Persimmon_40 (BE1), Riptide_160 (BE1), Sham_86 (BK1), Sheng711_122 (L4), Skinny_102 (M1), Spilled_194 (BE2), Stewart25555_143 (FC), Sushi23_176 (BE1), TomSawyer_193 (BE2), Tribute_97 (BE1), TunaTartare_106 (BK1), Vetrix_107 (L2), Westy_93 (BK1), WhereRU_103 (BE1), WhereRU_32 (BE1), WhereRU_41 (BE1), Wipeout_181 (BE2), Wofford_143 (BE2), Wofford_171 (BE2), Wofford_45 (BE2),

Start 46:

- Found in 1 of 116 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 108
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Keanu_110 (BQ),

Start 47:

- Found in 1 of 116 (0.9%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Artu_157 (FC),

Start 48:

- Found in 4 of 116 (3.4%) of genes in pham
- Manual Annotations of this start: 1 of 108
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Galactica_103 (BQ),

Start 49:

- Found in 1 of 116 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 108
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Talos_1 (BS),

Start 50:

- Found in 3 of 116 (2.6%) of genes in pham
- Manual Annotations of this start: 1 of 108
- Called 33.3% of time when present
- Phage (with cluster) where this start called: TomSawyer_149 (BE2),

Start 51:

- Found in 5 of 116 (4.3%) of genes in pham
- Manual Annotations of this start: 4 of 108
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AcciDwight_163 (BE2), Bordeaux_154 (BE2), KentuckyRacer_158 (BE2), MulchMansion_147 (BE1), StarPlatinum_159 (BE2),

Start 52:

- Found in 4 of 116 (3.4%) of genes in pham
- Manual Annotations of this start: 4 of 108
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Brizzy_163 (BE2), Enygma_167 (BE2), Quarant19_166 (BE2), TomSawyer_168 (BE2),

Start 53:

- Found in 2 of 116 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 108
- Called 50.0% of time when present
- Phage (with cluster) where this start called: PumpkinSpice_108 (BE2),

Start 55:

- Found in 4 of 116 (3.4%) of genes in pham
- Manual Annotations of this start: 2 of 108
- Called 75.0% of time when present
- Phage (with cluster) where this start called: ArV2_26 (singleton), Phrank15_33 (AY), Skitty_26 (FQ),

Start 59:

- Found in 6 of 116 (5.2%) of genes in pham
- Manual Annotations of this start: 6 of 108
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Glenn_49 (AK), Jumboset_49 (AK), Kittykat_49 (AK), PinkFriday_46 (AK), Pterodactyl_46 (AK), Wayne_49 (AK),

Start 62:

- Found in 2 of 116 (1.7%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: LeBruni_35 (AY),

Start 65:

- Found in 10 of 116 (8.6%) of genes in pham
- Manual Annotations of this start: 10 of 108
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AppleCider_48 (AK), BigMack_46 (AK), Bodacious_46 (AK), Canowicakte_48 (AK), ChewChew_46 (AK), CristinaYang_46 (AK), MeganNoll_48 (AK), Nancia_46 (AK), Suppi_48 (AK), Wawa_48 (AK),

Start 67:

- Found in 1 of 116 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 108
- Called 100.0% of time when present
- Phage (with cluster) where this start called: A3Wally_161 (GD1),

Start 68:

- Found in 1 of 116 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 108
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phabba_166 (C2),

Start 69:

- Found in 1 of 116 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 108
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Myrna_144 (C2),

Start 70:

- Found in 5 of 116 (4.3%) of genes in pham
- Manual Annotations of this start: 2 of 108
- Called 40.0% of time when present
- Phage (with cluster) where this start called: JonJames_21 (DD), Watermoore_188 (BE1),

Start 72:

- Found in 7 of 116 (6.0%) of genes in pham
- Manual Annotations of this start: 5 of 108
- Called 71.4% of time when present
- Phage (with cluster) where this start called: Bartholomune_188 (BE1), Blueeyedbeauty_139 (BK1), Cursive_112 (BE1), EGole_125 (BE1), StarPlatinum_106 (BE2),

Start 74:

- Found in 3 of 116 (2.6%) of genes in pham
- Manual Annotations of this start: 2 of 108
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Salacia_226 (C1), Sebata_227 (C1),

Start 77:

- Found in 10 of 116 (8.6%) of genes in pham
- Manual Annotations of this start: 2 of 108
- Called 30.0% of time when present
- Phage (with cluster) where this start called: Bloom_119 (FC), Elmer_149 (BE2), Towmatter_51 (DL),

Start 79:

- Found in 2 of 116 (1.7%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Park1214_41 (BS),

Summary by clusters:

There are 21 clusters represented in this pham: FQ, DL, GD1, AK, H1, CG, M1, singleton, AY, L4, FC, L2, BK1, BS, BE2, C2, C1, BE1, U, DD, BQ,

Info for manual annotations of cluster AK:

- Start number 59 was manually annotated 6 times for cluster AK.
- Start number 65 was manually annotated 10 times for cluster AK.

Info for manual annotations of cluster AY:

- Start number 55 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster BE1:

- Start number 39 was manually annotated 1 time for cluster BE1.
- Start number 44 was manually annotated 23 times for cluster BE1.
- Start number 51 was manually annotated 1 time for cluster BE1.
- Start number 70 was manually annotated 1 time for cluster BE1.
- Start number 72 was manually annotated 3 times for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 44 was manually annotated 16 times for cluster BE2.
- Start number 50 was manually annotated 1 time for cluster BE2.
- Start number 51 was manually annotated 3 times for cluster BE2.
- Start number 52 was manually annotated 4 times for cluster BE2.
- Start number 53 was manually annotated 1 time for cluster BE2.
- Start number 72 was manually annotated 1 time for cluster BE2.
- Start number 77 was manually annotated 1 time for cluster BE2.

Info for manual annotations of cluster BK1:

- Start number 17 was manually annotated 1 time for cluster BK1.
- Start number 44 was manually annotated 7 times for cluster BK1.
- Start number 72 was manually annotated 1 time for cluster BK1.

Info for manual annotations of cluster BQ:

- Start number 46 was manually annotated 1 time for cluster BQ.
- Start number 48 was manually annotated 1 time for cluster BQ.

Info for manual annotations of cluster BS:

- Start number 49 was manually annotated 1 time for cluster BS.

Info for manual annotations of cluster C1:

- Start number 39 was manually annotated 1 time for cluster C1.
- Start number 44 was manually annotated 1 time for cluster C1.
- Start number 74 was manually annotated 2 times for cluster C1.

Info for manual annotations of cluster C2:

- Start number 44 was manually annotated 1 time for cluster C2.
- Start number 68 was manually annotated 1 time for cluster C2.
- Start number 69 was manually annotated 1 time for cluster C2.

Info for manual annotations of cluster CG:

- Start number 41 was manually annotated 1 time for cluster CG.

Info for manual annotations of cluster DD:

- Start number 70 was manually annotated 1 time for cluster DD.

Info for manual annotations of cluster DL:

- Start number 24 was manually annotated 1 time for cluster DL.
- Start number 44 was manually annotated 1 time for cluster DL.
- Start number 77 was manually annotated 1 time for cluster DL.

Info for manual annotations of cluster FQ:

- Start number 55 was manually annotated 1 time for cluster FQ.

Info for manual annotations of cluster GD1:

- Start number 67 was manually annotated 1 time for cluster GD1.

Info for manual annotations of cluster H1:

- Start number 6 was manually annotated 1 time for cluster H1.

Info for manual annotations of cluster L2:

- Start number 44 was manually annotated 2 times for cluster L2.

Info for manual annotations of cluster L4:

- Start number 44 was manually annotated 1 time for cluster L4.

Info for manual annotations of cluster M1:

- Start number 32 was manually annotated 1 time for cluster M1.
- Start number 41 was manually annotated 1 time for cluster M1.
- Start number 44 was manually annotated 1 time for cluster M1.

Info for manual annotations of cluster U:

- Start number 27 was manually annotated 2 times for cluster U.

Gene Information:

Gene: A3Wally_161 Start: 93240, Stop: 93602, Start Num: 67

Candidate Starts for A3Wally_161:

(Start: 67 @93240 has 1 MA's), (81, 93294), (113, 93381), (126, 93435), (168, 93591),

Gene: AcciDwight_163 Start: 88123, Stop: 88467, Start Num: 51

Candidate Starts for AcciDwight_163:

(Start: 51 @88123 has 4 MA's), (97, 88252), (125, 88312), (126, 88315), (133, 88345), (137, 88360),

Gene: Amabiko_192 Start: 96212, Stop: 96601, Start Num: 44

Candidate Starts for Amabiko_192:

(Start: 44 @96212 has 53 MA's), (125, 96437), (126, 96440), (165, 96584), (170, 96593),

Gene: Anedea_140 Start: 84644, Stop: 85069, Start Num: 44

Candidate Starts for Anedea_140:

(Start: 44 @84644 has 53 MA's), (110, 84845), (120, 84875), (125, 84902), (129, 84926), (130, 84929), (163, 85052),

Gene: Anedea_167 Start: 92344, Stop: 92802, Start Num: 44

Candidate Starts for Anedea_167:

(Start: 44 @92344 has 53 MA's), (149, 92674), (176, 92764), (188, 92788),

Gene: Anedea_42 Start: 21646, Stop: 22047, Start Num: 44

Candidate Starts for Anedea_42:

(Start: 44 @21646 has 53 MA's), (Start: 48 @21658 has 1 MA's), (Start: 50 @21661 has 1 MA's), (61, 21691), (83, 21757), (108, 21820), (126, 21883),

Gene: AppleCider_48 Start: 35943, Stop: 36317, Start Num: 65

Candidate Starts for AppleCider_48:

(Start: 65 @35943 has 10 MA's), (123, 36129), (124, 36132), (149, 36216), (151, 36225),

Gene: ArV2_26 Start: 20690, Stop: 21238, Start Num: 55

Candidate Starts for ArV2_26:

(Start: 55 @20690 has 2 MA's), (75, 20753), (87, 20801), (116, 20879), (120, 20894), (139, 20984), (141, 20987), (186, 21116), (193, 21218),

Gene: Artu_157 Start: 108175, Stop: 108654, Start Num: 47

Candidate Starts for Artu_157:

(19, 108097), (47, 108175), (120, 108391), (124, 108418), (126, 108424), (134, 108457), (135, 108466), (140, 108478), (146, 108493), (156, 108532), (161, 108565), (168, 108580),

Gene: Bartholomune_188 Start: 98185, Stop: 98556, Start Num: 72

Candidate Starts for Bartholomune_188:

(Start: 70 @98179 has 2 MA's), (Start: 72 @98185 has 5 MA's), (122, 98344), (139, 98410), (140, 98413), (190, 98551),

Gene: BigMack_46 Start: 34816, Stop: 35190, Start Num: 65

Candidate Starts for BigMack_46:

(Start: 65 @34816 has 10 MA's), (123, 35002), (124, 35005), (149, 35089), (151, 35098),

Gene: Bloom_119 Start: 91780, Stop: 92142, Start Num: 77

Candidate Starts for Bloom_119:

(38, 91675), (Start: 77 @91780 has 2 MA's), (126, 91936), (164, 92080), (185, 92116),

Gene: Blueeyedbeauty_139 Start: 79396, Stop: 79761, Start Num: 72

Candidate Starts for Blueeyedbeauty_139:

(Start: 72 @79396 has 5 MA's), (89, 79465), (100, 79498), (109, 79510), (122, 79555), (125, 79570), (139, 79621), (168, 79717), (181, 79738), (184, 79741),

Gene: Bodacious_46 Start: 34773, Stop: 35147, Start Num: 65

Candidate Starts for Bodacious_46:

(Start: 65 @34773 has 10 MA's), (123, 34959), (124, 34962), (149, 35046), (151, 35055),

Gene: Bonray_168 Start: 94840, Stop: 95289, Start Num: 39

Candidate Starts for Bonray_168:

(Start: 39 @94840 has 2 MA's), (45, 94849), (Start: 77 @94942 has 2 MA's), (92, 95002), (94, 95017), (110, 95044), (118, 95056), (119, 95059), (141, 95161), (155, 95209), (177, 95275),

Gene: Bordeaux_154 Start: 87839, Stop: 88183, Start Num: 51

Candidate Starts for Bordeaux_154:

(Start: 51 @87839 has 4 MA's), (97, 87968), (125, 88028), (126, 88031), (133, 88061), (137, 88076),

Gene: Braelyn_43 Start: 22198, Stop: 22599, Start Num: 44

Candidate Starts for Braelyn_43:

(Start: 44 @22198 has 53 MA's), (61, 22243), (82, 22306), (108, 22372), (126, 22435),

Gene: Brizzy_188 Start: 96656, Stop: 97045, Start Num: 44

Candidate Starts for Brizzy_188:

(Start: 44 @96656 has 53 MA's), (125, 96881), (126, 96884), (165, 97028), (170, 97037),

Gene: Brizzy_163 Start: 90852, Stop: 91316, Start Num: 52

Candidate Starts for Brizzy_163:

(Start: 52 @90852 has 4 MA's), (85, 90960), (92, 90990), (125, 91092), (138, 91146), (139, 91149), (149, 91176), (191, 91305),

Gene: Cadmus_194 Start: 103833, Stop: 104354, Start Num: 44

Candidate Starts for Cadmus_194:

(Start: 44 @103833 has 53 MA's), (80, 103935), (99, 104010), (126, 104076), (128, 104091), (138, 104127), (143, 104142), (155, 104184), (166, 104229), (168, 104232), (192, 104349),

Gene: Canowicakte_48 Start: 35978, Stop: 36352, Start Num: 65

Candidate Starts for Canowicakte_48:

(Start: 65 @35978 has 10 MA's), (123, 36164), (124, 36167), (149, 36251), (151, 36260),

Gene: CeilingFan_148 Start: 86515, Stop: 86958, Start Num: 44

Candidate Starts for CeilingFan_148:

(7, 86389), (8, 86401), (10, 86410), (11, 86416), (25, 86473), (33, 86500), (Start: 44 @86515 has 53 MA's), (Start: 77 @86614 has 2 MA's), (138, 86821), (178, 86947),

Gene: ChewChew_46 Start: 34904, Stop: 35278, Start Num: 65

Candidate Starts for ChewChew_46:

(Start: 65 @34904 has 10 MA's), (123, 35090), (124, 35093), (149, 35177), (151, 35186),

Gene: CristinaYang_46 Start: 34900, Stop: 35274, Start Num: 65

Candidate Starts for CristinaYang_46:

(Start: 65 @34900 has 10 MA's), (123, 35086), (124, 35089), (149, 35173), (151, 35182),

Gene: Cursive_198 Start: 103181, Stop: 103702, Start Num: 44

Candidate Starts for Cursive_198:

(Start: 44 @103181 has 53 MA's), (80, 103283), (99, 103358), (126, 103424), (128, 103439), (138, 103475), (143, 103490), (155, 103532), (166, 103577), (168, 103580), (192, 103697),

Gene: Cursive_112 Start: 77217, Stop: 77573, Start Num: 72

Candidate Starts for Cursive_112:

(Start: 72 @77217 has 5 MA's), (120, 77361), (125, 77391), (126, 77394), (130, 77418), (139, 77448), (146, 77466), (162, 77538),

Gene: Dandelion_160 Start: 94845, Stop: 95354, Start Num: 44

Candidate Starts for Dandelion_160:

(20, 94782), (22, 94791), (Start: 44 @94845 has 53 MA's), (99, 95025), (110, 95043), (112, 95046), (124, 95097), (125, 95100), (138, 95148), (139, 95151), (159, 95232),

Gene: Daredevil_51 Start: 40951, Stop: 41370, Start Num: 44

Candidate Starts for Daredevil_51:

(13, 40861), (Start: 24 @40906 has 1 MA's), (26, 40912), (Start: 44 @40951 has 53 MA's), (57, 40987), (110, 41149), (126, 41209), (138, 41257),

Gene: Davielle_32 Start: 14821, Stop: 14384, Start Num: 44

Candidate Starts for Davielle_32:

(Start: 44 @14821 has 53 MA's), (128, 14548), (132, 14533), (134, 14530),

Gene: Davielle_104 Start: 73218, Stop: 73643, Start Num: 44

Candidate Starts for Davielle_104:

(Start: 44 @73218 has 53 MA's), (110, 73410), (117, 73419), (149, 73548),

Gene: Davielle_41 Start: 21615, Stop: 22016, Start Num: 44

Candidate Starts for Davielle_41:

(Start: 44 @21615 has 53 MA's), (61, 21660), (126, 21852),

Gene: Douge_125 Start: 66042, Stop: 66473, Start Num: 44

Candidate Starts for Douge_125:

(31, 66024), (Start: 44 @66042 has 53 MA's), (79, 66147), (99, 66225), (110, 66243), (120, 66273), (126, 66303), (139, 66351), (156, 66405), (157, 66423),

Gene: EGole_125 Start: 82153, Stop: 82503, Start Num: 72

Candidate Starts for EGole_125:

(Start: 72 @82153 has 5 MA's), (126, 82330), (135, 82369), (158, 82456),

Gene: Elmer_149 Start: 88649, Stop: 88993, Start Num: 77

Candidate Starts for Elmer_149:

(14, 88460), (16, 88475), (25, 88508), (33, 88535), (Start: 44 @88550 has 53 MA's), (Start: 77 @88649 has 2 MA's), (103, 88733), (138, 88856), (178, 88982),

Gene: Enygma_167 Start: 93249, Stop: 93713, Start Num: 52

Candidate Starts for Enygma_167:

(Start: 52 @93249 has 4 MA's), (85, 93357), (92, 93387), (125, 93489), (138, 93543), (139, 93546), (149, 93573), (191, 93702),

Gene: Forrest_91 Start: 63801, Stop: 64238, Start Num: 44

Candidate Starts for Forrest_91:

(37, 63792), (Start: 39 @63795 has 2 MA's), (Start: 44 @63801 has 53 MA's), (119, 64017), (120, 64032), (126, 64062), (135, 64098),

Gene: Forrest_124 Start: 77019, Stop: 77447, Start Num: 44

Candidate Starts for Forrest_124:

(21, 76962), (28, 76983), (29, 76992), (Start: 44 @77019 has 53 MA's), (56, 77049), (Start: 70 @77094 has 2 MA's), (138, 77319), (139, 77322), (154, 77370), (174, 77433),

Gene: Francesca_152 Start: 89986, Stop: 90429, Start Num: 41

Candidate Starts for Francesca_152:

(Start: 41 @89986 has 2 MA's), (126, 90241), (167, 90394), (180, 90418),

Gene: Galactica_103 Start: 72510, Stop: 72941, Start Num: 48

Candidate Starts for Galactica_103:

(30, 72474), (Start: 48 @72510 has 1 MA's), (84, 72630), (115, 72711), (145, 72837),

Gene: Glenn_49 Start: 36170, Stop: 36574, Start Num: 59

Candidate Starts for Glenn_49:

(Start: 59 @36170 has 6 MA's), (124, 36380),

Gene: IchabodCrane_184 Start: 95913, Stop: 96302, Start Num: 44

Candidate Starts for IchabodCrane_184:

(Start: 44 @95913 has 53 MA's), (125, 96138), (126, 96141), (165, 96285), (170, 96294),

Gene: Jada_120 Start: 75949, Stop: 76377, Start Num: 44

Candidate Starts for Jada_120:

(21, 75892), (28, 75913), (29, 75922), (Start: 44 @75949 has 53 MA's), (56, 75979), (Start: 70 @76024 has 2 MA's), (138, 76249), (139, 76252), (154, 76300), (174, 76363),

Gene: JimJam_195 Start: 97834, Stop: 98223, Start Num: 44

Candidate Starts for JimJam_195:

(Start: 44 @97834 has 53 MA's), (125, 98059), (126, 98062), (165, 98206), (170, 98215),

Gene: JimJam_152 Start: 87443, Stop: 87886, Start Num: 44

Candidate Starts for JimJam_152:

(7, 87317), (8, 87329), (10, 87338), (11, 87344), (25, 87401), (33, 87428), (Start: 44 @87443 has 53 MA's), (Start: 77 @87542 has 2 MA's), (138, 87749), (178, 87875),

Gene: JimJam_109 Start: 73736, Stop: 74164, Start Num: 44

Candidate Starts for JimJam_109:

(Start: 44 @73736 has 53 MA's), (Start: 72 @73817 has 5 MA's), (125, 73985), (138, 74039), (141, 74045), (179, 74159),

Gene: JonJames_21 Start: 7188, Stop: 7577, Start Num: 70

Candidate Starts for JonJames_21:

(15, 7032), (34, 7098), (Start: 70 @7188 has 2 MA's), (110, 7314), (156, 7476), (175, 7536),

Gene: Jumboset_49 Start: 36068, Stop: 36457, Start Num: 59

Candidate Starts for Jumboset_49:

(Start: 59 @36068 has 6 MA's), (112, 36221), (124, 36272),

Gene: Keanu_110 Start: 78255, Stop: 78767, Start Num: 46

Candidate Starts for Keanu_110:

(4, 78069), (5, 78096), (11, 78144), (Start: 32 @78228 has 1 MA's), (40, 78240), (Start: 46 @78255 has 1 MA's), (64, 78306), (Start: 74 @78336 has 2 MA's), (76, 78351), (112, 78456), (118, 78465), (124, 78507), (136, 78561), (147, 78594),

Gene: KentuckyRacer_158 Start: 88711, Stop: 89055, Start Num: 51

Candidate Starts for KentuckyRacer_158:

(Start: 51 @88711 has 4 MA's), (126, 88903), (133, 88933), (137, 88948),

Gene: KentuckyRacer_150 Start: 87011, Stop: 87454, Start Num: 44

Candidate Starts for KentuckyRacer_150:

(7, 86885), (8, 86897), (10, 86906), (11, 86912), (25, 86969), (33, 86996), (Start: 44 @87011 has 53 MA's), (Start: 77 @87110 has 2 MA's), (138, 87317), (178, 87443),

Gene: KentuckyRacer_193 Start: 97580, Stop: 97969, Start Num: 44

Candidate Starts for KentuckyRacer_193:

(Start: 44 @97580 has 53 MA's), (125, 97805), (126, 97808), (165, 97952), (170, 97961),

Gene: Kittykat_49 Start: 35170, Stop: 35559, Start Num: 59

Candidate Starts for Kittykat_49:

(Start: 59 @35170 has 6 MA's), (124, 35374),

Gene: Labelle_5 Start: 2590, Stop: 3042, Start Num: 27

Candidate Starts for Labelle_5:

(Start: 27 @2590 has 2 MA's), (111, 2803), (124, 2857), (138, 2911), (139, 2914), (158, 2989), (160, 2998),

Gene: LeBruni_35 Start: 24508, Stop: 25041, Start Num: 62

Candidate Starts for LeBruni_35:

(Start: 55 @24490 has 2 MA's), (62, 24508), (87, 24601), (120, 24694), (125, 24727), (131, 24757), (139, 24784), (156, 24838), (186, 24916),

Gene: Leo04_177 Start: 96224, Stop: 96667, Start Num: 44

Candidate Starts for Leo04_177:

(Start: 44 @96224 has 53 MA's), (91, 96377), (95, 96398), (138, 96530), (148, 96554), (185, 96662),

Gene: Leo04_45 Start: 23281, Stop: 23682, Start Num: 44

Candidate Starts for Leo04_45:

(Start: 44 @23281 has 53 MA's), (61, 23326), (126, 23518),

Gene: Lewan_109 Start: 63302, Stop: 63781, Start Num: 44

Candidate Starts for Lewan_109:

(Start: 41 @63299 has 2 MA's), (Start: 44 @63302 has 53 MA's), (91, 63455), (110, 63500), (120, 63530), (138, 63608), (146, 63629),

Gene: LilhomieP_97 Start: 57511, Stop: 57948, Start Num: 32

Candidate Starts for LilhomieP_97:

(Start: 32 @57511 has 1 MA's), (Start: 44 @57526 has 53 MA's), (90, 57676), (126, 57781), (128, 57796), (138, 57829), (146, 57850), (159, 57913),

Gene: Marsus_237 Start: 116691, Stop: 117125, Start Num: 39

Candidate Starts for Marsus_237:

(Start: 39 @116691 has 2 MA's), (73, 116781), (126, 116952), (127, 116958), (149, 117033), (155, 117060),

Gene: Marsus_42 Start: 21346, Stop: 21747, Start Num: 44

Candidate Starts for Marsus_42:

(Start: 44 @21346 has 53 MA's), (Start: 48 @21358 has 1 MA's), (Start: 50 @21361 has 1 MA's), (61, 21391), (83, 21457), (108, 21520), (126, 21583),

Gene: MeganNoll_48 Start: 36135, Stop: 36509, Start Num: 65

Candidate Starts for MeganNoll_48:

(Start: 65 @36135 has 10 MA's), (124, 36324), (149, 36408),

Gene: Megatron06_4 Start: 2094, Stop: 2681, Start Num: 6

Candidate Starts for Megatron06_4:

(Start: 6 @2094 has 1 MA's), (9, 2112), (12, 2133), (18, 2154), (Start: 27 @2187 has 2 MA's), (Start: 39 @2220 has 2 MA's), (57, 2262), (126, 2490), (130, 2514), (139, 2541), (149, 2562),

Gene: Mildred21_168 Start: 90931, Stop: 91365, Start Num: 44

Candidate Starts for Mildred21_168:

(Start: 44 @90931 has 53 MA's), (126, 91192), (130, 91216), (138, 91243), (149, 91270), (155, 91297), (172, 91354),

Gene: Mildred21_142 Start: 85401, Stop: 85826, Start Num: 44

Candidate Starts for Mildred21_142:

(Start: 44 @85401 has 53 MA's), (110, 85602), (120, 85632), (125, 85659), (129, 85683), (130, 85686), (163, 85809),

Gene: Mugiwara_190 Start: 97213, Stop: 97602, Start Num: 44

Candidate Starts for Mugiwara_190:

(Start: 44 @97213 has 53 MA's), (125, 97438), (126, 97441), (165, 97585), (170, 97594),

Gene: MulchMansion_147 Start: 87054, Stop: 87398, Start Num: 51

Candidate Starts for MulchMansion_147:

(Start: 51 @87054 has 4 MA's), (126, 87246), (133, 87276), (137, 87291),

Gene: Myrna_210 Start: 122711, Stop: 123163, Start Num: 44

Candidate Starts for Myrna_210:

(36, 122702), (Start: 44 @122711 has 53 MA's), (Start: 77 @122810 has 2 MA's), (128, 122984), (138, 123017), (159, 123101),

Gene: Myrna_144 Start: 92033, Stop: 92380, Start Num: 69

Candidate Starts for Myrna_144:

(Start: 69 @92033 has 1 MA's), (98, 92141), (126, 92213), (150, 92294), (155, 92318),

Gene: Nancia_46 Start: 34773, Stop: 35147, Start Num: 65

Candidate Starts for Nancia_46:

(Start: 65 @34773 has 10 MA's), (123, 34959), (124, 34962), (149, 35046), (151, 35055),

Gene: Navo_42 Start: 22093, Stop: 22494, Start Num: 44

Candidate Starts for Navo_42:

(Start: 44 @22093 has 53 MA's), (61, 22138), (82, 22201), (108, 22267), (126, 22330),

Gene: Paradiddles_170 Start: 96596, Stop: 97039, Start Num: 44

Candidate Starts for Paradiddles_170:

(Start: 44 @96596 has 53 MA's), (91, 96749), (95, 96770), (138, 96902), (148, 96926), (185, 97034),

Gene: Park1214_41 Start: 12803, Stop: 13108, Start Num: 79

Candidate Starts for Park1214_41:

(60, 12737), (79, 12803), (105, 12884), (120, 12914), (141, 13004), (149, 13025),

Gene: Patelgo_131 Start: 78593, Stop: 79012, Start Num: 44

Candidate Starts for Patelgo_131:

(Start: 44 @78593 has 53 MA's), (57, 78629), (138, 78893), (173, 79004),

Gene: Patience_5 Start: 2590, Stop: 3042, Start Num: 27

Candidate Starts for Patience_5:

(Start: 27 @2590 has 2 MA's), (111, 2803), (124, 2857), (138, 2911), (139, 2914), (158, 2989), (160, 2998),

Gene: PegLeg_102 Start: 57809, Stop: 58258, Start Num: 41

Candidate Starts for PegLeg_102:

(Start: 41 @57809 has 2 MA's), (102, 57995), (104, 57998), (110, 58010), (120, 58040), (159, 58205), (183, 58253),

Gene: Persimmon_40 Start: 21025, Stop: 21426, Start Num: 44

Candidate Starts for Persimmon_40:

(Start: 44 @21025 has 53 MA's), (61, 21070), (126, 21262),

Gene: Phabba_166 Start: 92816, Stop: 93178, Start Num: 68

Candidate Starts for Phabba_166:

(42, 92741), (Start: 68 @92816 has 1 MA's), (93, 92915), (125, 93011), (126, 93014), (128, 93029), (130, 93038), (146, 93083), (156, 93122), (168, 93167), (171, 93173),

Gene: Phrank15_33 Start: 23639, Stop: 24190, Start Num: 55

Candidate Starts for Phrank15_33:

(Start: 55 @23639 has 2 MA's), (62, 23657), (87, 23750), (120, 23843), (125, 23876), (131, 23906), (139, 23933), (156, 23987), (186, 24065),

Gene: PinkFriday_46 Start: 35018, Stop: 35407, Start Num: 59

Candidate Starts for PinkFriday_46:

(Start: 59 @35018 has 6 MA's), (124, 35222),

Gene: Pterodactyl_46 Start: 34733, Stop: 35122, Start Num: 59

Candidate Starts for Pterodactyl_46:

(Start: 59 @34733 has 6 MA's), (112, 34886), (124, 34937),

Gene: PumpkinSpice_108 Start: 73788, Stop: 74195, Start Num: 53

Candidate Starts for PumpkinSpice_108:

(Start: 53 @73788 has 1 MA's), (111, 73965), (114, 73968), (120, 73992), (126, 74025), (138, 74073), (139, 74076), (150, 74103), (163, 74169), (174, 74190),

Gene: Quaran19_166 Start: 91061, Stop: 91525, Start Num: 52

Candidate Starts for Quaran19_166:

(Start: 52 @91061 has 4 MA's), (85, 91169), (92, 91199), (125, 91301), (138, 91355), (139, 91358), (149, 91385), (191, 91514),

Gene: Riptide_160 Start: 90983, Stop: 91441, Start Num: 44

Candidate Starts for Riptide_160:

(Start: 44 @90983 has 53 MA's), (149, 91313), (176, 91403), (188, 91427),

Gene: Salacia_226 Start: 127343, Stop: 126957, Start Num: 74

Candidate Starts for Salacia_226:

(66, 127367), (Start: 74 @127343 has 2 MA's), (126, 127157), (138, 127112), (181, 126989),

Gene: Sebata_227 Start: 127157, Stop: 126771, Start Num: 74

Candidate Starts for Sebata_227:

(66, 127181), (Start: 74 @127157 has 2 MA's), (126, 126971), (138, 126926), (181, 126803),

Gene: Sham_86 Start: 65422, Stop: 65853, Start Num: 44
Candidate Starts for Sham_86:
(Start: 44 @65422 has 53 MA's), (130, 65698), (138, 65725), (163, 65821), (172, 65836),

Gene: Sheng711_122 Start: 64965, Stop: 65390, Start Num: 44
Candidate Starts for Sheng711_122:
(Start: 44 @64965 has 53 MA's), (124, 65220), (125, 65223), (155, 65328),

Gene: Skinny_102 Start: 57955, Stop: 58377, Start Num: 44
Candidate Starts for Skinny_102:
(Start: 32 @57940 has 1 MA's), (Start: 44 @57955 has 53 MA's), (90, 58105), (126, 58210), (128, 58225), (138, 58258), (146, 58279), (159, 58342),

Gene: Skitty_26 Start: 20961, Stop: 21509, Start Num: 55
Candidate Starts for Skitty_26:
(Start: 55 @20961 has 2 MA's), (58, 20970), (78, 21042), (106, 21135), (120, 21165), (139, 21255), (156, 21309), (186, 21387),

Gene: SpeedDemon_630 Start: 48321, Stop: 48788, Start Num: 24
Candidate Starts for SpeedDemon_630:
(1, 48000), (2, 48108), (3, 48117), (Start: 24 @48321 has 1 MA's), (Start: 53 @48393 has 1 MA's), (101, 48549), (106, 48558), (121, 48606), (138, 48672), (150, 48702),

Gene: Spilled_194 Start: 96766, Stop: 97155, Start Num: 44
Candidate Starts for Spilled_194:
(Start: 44 @96766 has 53 MA's), (125, 96991), (126, 96994), (165, 97138), (170, 97147),

Gene: StarPlatinum_106 Start: 73373, Stop: 73726, Start Num: 72
Candidate Starts for StarPlatinum_106:
(16, 73211), (54, 73316), (Start: 72 @73373 has 5 MA's), (100, 73475), (120, 73514), (126, 73547),

Gene: StarPlatinum_159 Start: 89611, Stop: 89955, Start Num: 51
Candidate Starts for StarPlatinum_159:
(Start: 51 @89611 has 4 MA's), (126, 89803), (133, 89833), (137, 89848),

Gene: Stewart25555_143 Start: 101011, Stop: 101472, Start Num: 44
Candidate Starts for Stewart25555_143:
(35, 100999), (Start: 44 @101011 has 53 MA's), (110, 101209), (142, 101332), (184, 101449),

Gene: Suppi_48 Start: 35978, Stop: 36352, Start Num: 65
Candidate Starts for Suppi_48:
(Start: 65 @35978 has 10 MA's), (123, 36164), (124, 36167), (149, 36251), (151, 36260),

Gene: Sushi23_176 Start: 96586, Stop: 97014, Start Num: 44
Candidate Starts for Sushi23_176:
(Start: 44 @96586 has 53 MA's), (91, 96739), (138, 96892), (148, 96916),

Gene: Talos_1 Start: 667, Stop: 230, Start Num: 49
Candidate Starts for Talos_1:
(Start: 49 @667 has 1 MA's), (96, 496), (119, 460), (126, 415), (163, 268),

Gene: TomSawyer_149 Start: 86660, Stop: 87088, Start Num: 50
Candidate Starts for TomSawyer_149:

(7, 86519), (8, 86531), (10, 86540), (11, 86546), (25, 86603), (33, 86630), (Start: 44 @86645 has 53 MA's), (Start: 50 @86660 has 1 MA's), (Start: 77 @86744 has 2 MA's), (103, 86828), (138, 86951), (169, 87062), (176, 87074),

Gene: TomSawyer_168 Start: 92075, Stop: 92539, Start Num: 52

Candidate Starts for TomSawyer_168:

(43, 92048), (Start: 52 @92075 has 4 MA's), (85, 92183), (92, 92213), (125, 92315), (138, 92369), (139, 92372), (149, 92399), (191, 92528),

Gene: TomSawyer_193 Start: 97685, Stop: 98074, Start Num: 44

Candidate Starts for TomSawyer_193:

(Start: 44 @97685 has 53 MA's), (125, 97910), (126, 97913), (165, 98057), (170, 98066),

Gene: Towmatter_51 Start: 41131, Stop: 41451, Start Num: 77

Candidate Starts for Towmatter_51:

(23, 40987), (Start: 32 @41017 has 1 MA's), (Start: 44 @41032 has 53 MA's), (57, 41068), (Start: 77 @41131 has 2 MA's), (80, 41140), (110, 41230), (126, 41290), (138, 41338),

Gene: Tribute_97 Start: 71749, Stop: 72189, Start Num: 44

Candidate Starts for Tribute_97:

(38, 71743), (Start: 44 @71749 has 53 MA's), (71, 71827), (88, 71893), (120, 71968), (138, 72043), (156, 72103), (182, 72172), (187, 72181),

Gene: TunaTartare_106 Start: 73259, Stop: 73636, Start Num: 44

Candidate Starts for TunaTartare_106:

(Start: 44 @73259 has 53 MA's), (63, 73304), (126, 73487), (149, 73559), (156, 73589),

Gene: TunaTartare_131 Start: 79206, Stop: 79715, Start Num: 17

Candidate Starts for TunaTartare_131:

(Start: 17 @79206 has 1 MA's), (Start: 44 @79278 has 53 MA's), (73, 79362), (128, 79554), (138, 79590), (144, 79605), (148, 79617), (152, 79632),

Gene: Vetrrix_107 Start: 63521, Stop: 64000, Start Num: 44

Candidate Starts for Vetrrix_107:

(33, 63506), (Start: 41 @63518 has 2 MA's), (Start: 44 @63521 has 53 MA's), (107, 63713), (120, 63749), (124, 63773), (138, 63827), (155, 63884), (159, 63911), (189, 63968),

Gene: Watermoore_188 Start: 100639, Stop: 101016, Start Num: 70

Candidate Starts for Watermoore_188:

(Start: 70 @100639 has 2 MA's), (Start: 72 @100645 has 5 MA's), (122, 100804), (139, 100870), (140, 100873), (190, 101011),

Gene: Wawa_48 Start: 35937, Stop: 36311, Start Num: 65

Candidate Starts for Wawa_48:

(Start: 65 @35937 has 10 MA's), (123, 36123), (124, 36126), (149, 36210), (151, 36219),

Gene: Wayne_49 Start: 36024, Stop: 36443, Start Num: 59

Candidate Starts for Wayne_49:

(Start: 59 @36024 has 6 MA's), (124, 36234),

Gene: Westy_93 Start: 66532, Stop: 66957, Start Num: 44

Candidate Starts for Westy_93:

(19, 66466), (25, 66490), (Start: 44 @66532 has 53 MA's), (110, 66724), (125, 66781), (138, 66835), (150, 66862),

Gene: WhereRU_32 Start: 14821, Stop: 14384, Start Num: 44

Candidate Starts for WhereRU_32:

(Start: 44 @14821 has 53 MA's), (128, 14548), (132, 14533), (134, 14530),

Gene: WhereRU_103 Start: 73218, Stop: 73643, Start Num: 44

Candidate Starts for WhereRU_103:

(Start: 44 @73218 has 53 MA's), (110, 73410), (117, 73419), (149, 73548),

Gene: WhereRU_41 Start: 21615, Stop: 22016, Start Num: 44

Candidate Starts for WhereRU_41:

(Start: 44 @21615 has 53 MA's), (61, 21660), (126, 21852),

Gene: Wipeout_181 Start: 97029, Stop: 97418, Start Num: 44

Candidate Starts for Wipeout_181:

(Start: 44 @97029 has 53 MA's), (125, 97254), (126, 97257), (165, 97401), (170, 97410),

Gene: Wofford_45 Start: 23131, Stop: 23520, Start Num: 44

Candidate Starts for Wofford_45:

(Start: 44 @23131 has 53 MA's), (Start: 48 @23143 has 1 MA's), (61, 23176), (83, 23242), (86, 23245), (108, 23293), (126, 23356), (153, 23446),

Gene: Wofford_143 Start: 88534, Stop: 88977, Start Num: 44

Candidate Starts for Wofford_143:

(8, 88420), (10, 88429), (11, 88435), (25, 88492), (33, 88519), (Start: 44 @88534 has 53 MA's), (Start: 77 @88633 has 2 MA's), (138, 88840),

Gene: Wofford_171 Start: 96384, Stop: 96842, Start Num: 44

Candidate Starts for Wofford_171:

(Start: 44 @96384 has 53 MA's), (149, 96714), (176, 96804), (188, 96828),