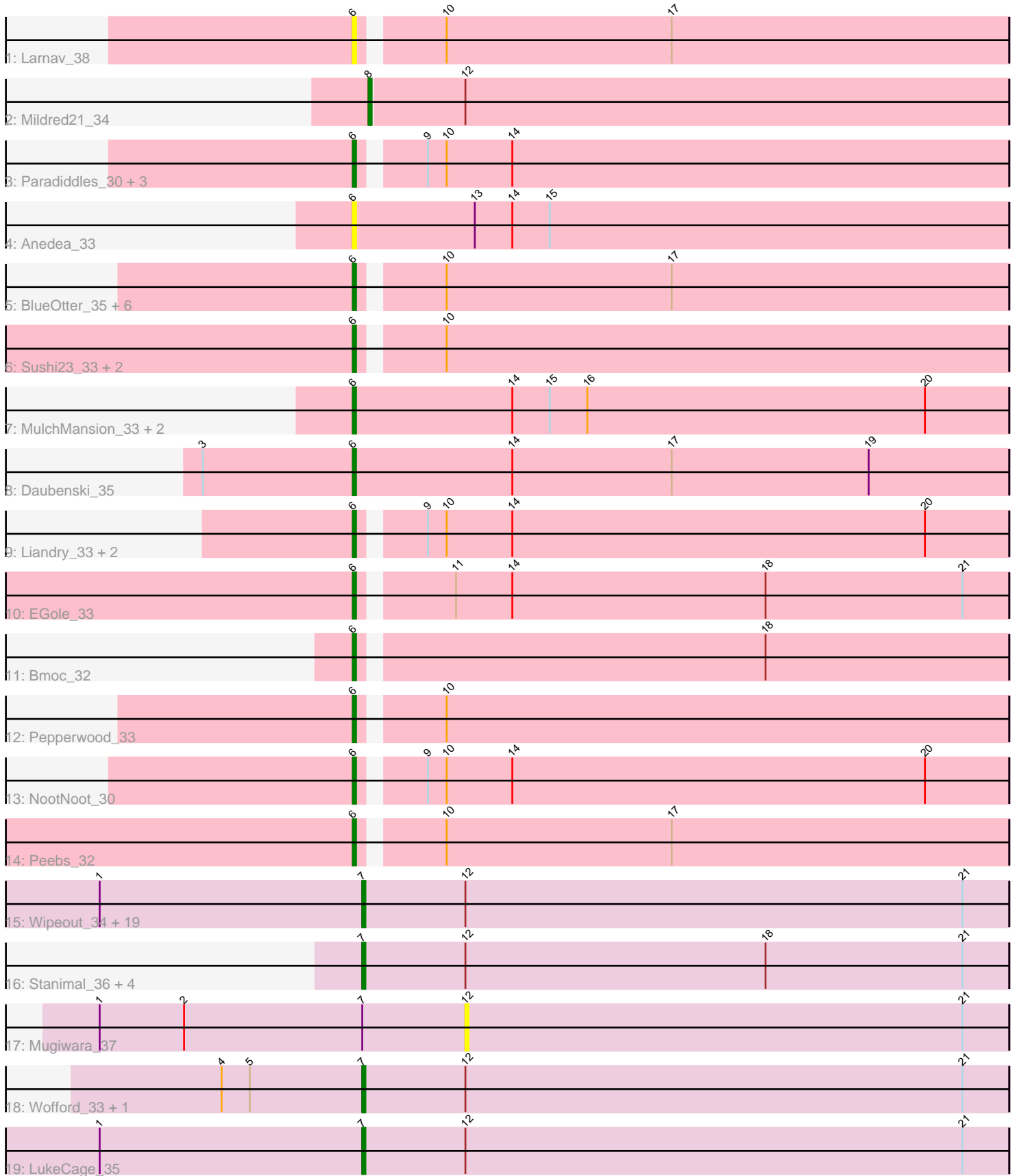


Pham 157888



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 157888 Report

This analysis was run 04/13/24 on database version 558.

Pham number 157888 has 58 members, 10 are drafts.

Phages represented in each track:

- Track 1 : Larnav_38
- Track 2 : Mildred21_34
- Track 3 : Paradiddles_30, Braelyn_33, Persimmon_30, Bartholomune_33
- Track 4 : Anedeia_33
- Track 5 : BlueOtter_35, Cursive_31, Watermoore_33, Leo04_33, Lululemon_35, Cross_33, HangryHippo_35
- Track 6 : Sushi23_33, Teutsch_32, Samisti12_32
- Track 7 : MulchMansion_33, LilMartin_33, Angela_33
- Track 8 : Daubenski_35
- Track 9 : Liandry_33, Squillium_33, PinkiePie_33
- Track 10 : EGole_33
- Track 11 : Bmoc_32
- Track 12 : Pepperwood_33
- Track 13 : NootNoot_30
- Track 14 : Peebs_32
- Track 15 : Wipeout_34, Bordeaux_34, PumpkinSpice_35, MindFlayer_34, IchabodCrane_34, Enygma_33, Gibbi_38, Birchlyn_33, Battuta_34, CeilingFan_38, Spelly_36, TomSawyer_34, Spilled_36, Quaran19_36, Karimac_35, Amabiko_36, Jollison_39, JimJam_36, Starbow_34, SaltySpittoon_36
- Track 16 : Stanimal_36, Sollertia_36, BoomerJR_36, Yaboi_37, Genie2_36
- Track 17 : Mugiwara_37
- Track 18 : Wofford_33, Elmer_40
- Track 19 : LukeCage_35

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

The start number called the most often in the published annotations is 7, it was called in 24 of the 48 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amabiko_36, Battuta_34, Birchlyn_33, BoomerJR_36, Bordeaux_34, CeilingFan_38, Elmer_40, Enygma_33, Genie2_36, Gibbi_38, IchabodCrane_34, JimJam_36, Jollison_39, Karimac_35, LukeCage_35, MindFlayer_34, PumpkinSpice_35, Quaran19_36, SaltySpittoon_36, Sollertia_36, Spelly_36,

Spilled_36, Stanimal_36, Starbow_34, TomSawyer_34, Wipeout_34, Wofford_33, Yaboi_37,

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

- Mugiwara_37,

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

- Anedea_33, Angela_33, Bartholomune_33, BlueOtter_35, Bmoc_32, Braelyn_33, Cross_33, Cursive_31, Daubenski_35, EGole_33, HangryHippo_35, Larnav_38, Leo04_33, Liandry_33, LilMartin_33, Lululemon_35, Mildred21_34, MulchMansion_33, NootNoot_30, Paradiddles_30, Peebs_32, Pepperwood_33, Persimmon_30, PinkiePie_33, Samisti12_32, Squillium_33, Sushi23_33, Teutsch_32, Watermoore_33,

Summary by start number:

Start 6:

- Found in 28 of 58 (48.3%) of genes in pham
- Manual Annotations of this start: 23 of 48
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anedea_33 (BE1), Angela_33 (BE1), Bartholomune_33 (BE1), BlueOtter_35 (BE1), Bmoc_32 (BE1), Braelyn_33 (BE1), Cross_33 (BE1), Cursive_31 (BE1), Daubenski_35 (BE1), EGole_33 (BE1), HangryHippo_35 (BE1), Larnav_38 (BE1), Leo04_33 (BE1), Liandry_33 (BE1), LilMartin_33 (BE1), Lululemon_35 (BE1), MulchMansion_33 (BE1), NootNoot_30 (BE1), Paradiddles_30 (BE1), Peebs_32 (BE1), Pepperwood_33 (BE1), Persimmon_30 (BE1), PinkiePie_33 (BE1), Samisti12_32 (BE1), Squillium_33 (BE1), Sushi23_33 (BE1), Teutsch_32 (BE1), Watermoore_33 (BE1),

Start 7:

- Found in 29 of 58 (50.0%) of genes in pham
- Manual Annotations of this start: 24 of 48
- Called 96.6% of time when present
- Phage (with cluster) where this start called: Amabiko_36 (BE2), Battuta_34 (BE2), Birchlyn_33 (BE2), BoomerJR_36 (BE2), Bordeaux_34 (BE2), CeilingFan_38 (BE2), Elmer_40 (BE2), Enygma_33 (BE2), Genie2_36 (BE2), Gibbi_38 (BE2), IchabodCrane_34 (BE2), JimJam_36 (BE2), Jollison_39 (BE2), Karimac_35 (BE2), LukeCage_35 (BE2), MindFlayer_34 (BE2), PumpkinSpice_35 (BE2), Quarant19_36 (BE2), SaltySpittoon_36 (BE2), Sollertia_36 (BE2), Spelly_36 (BE2), Spilled_36 (BE2), Stanimal_36 (BE2), Starbow_34 (BE2), TomSawyer_34 (BE2), Wipeout_34 (BE2), Wofford_33 (BE2), Yaboi_37 (BE2),

Start 8:

- Found in 1 of 58 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 48
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mildred21_34 (BE1),

Start 12:

- Found in 30 of 58 (51.7%) of genes in pham
- No Manual Annotations of this start.
- Called 3.3% of time when present
- Phage (with cluster) where this start called: Mugiwara_37 (BE2),

Summary by clusters:

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

Info for manual annotations of cluster BE1:

- Start number 6 was manually annotated 23 times for cluster BE1.
- Start number 8 was manually annotated 1 time for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 7 was manually annotated 24 times for cluster BE2.

Gene Information:

Gene: Amabiko_36 Start: 16226, Stop: 16020, Start Num: 7

Candidate Starts for Amabiko_36:

(1, 16310), (Start: 7 @16226 has 24 MA's), (12, 16193), (21, 16034),

Gene: Anedea_33 Start: 15212, Stop: 15003, Start Num: 6

Candidate Starts for Anedea_33:

(Start: 6 @15212 has 23 MA's), (13, 15173), (14, 15161), (15, 15149),

Gene: Angela_33 Start: 15247, Stop: 15038, Start Num: 6

Candidate Starts for Angela_33:

(Start: 6 @15247 has 23 MA's), (14, 15196), (15, 15184), (16, 15172), (20, 15064),

Gene: Bartholomune_33 Start: 14992, Stop: 14789, Start Num: 6

Candidate Starts for Bartholomune_33:

(Start: 6 @14992 has 23 MA's), (9, 14974), (10, 14968), (14, 14947),

Gene: Battuta_34 Start: 16202, Stop: 15996, Start Num: 7

Candidate Starts for Battuta_34:

(1, 16286), (Start: 7 @16202 has 24 MA's), (12, 16169), (21, 16010),

Gene: Birchlyn_33 Start: 14083, Stop: 13877, Start Num: 7

Candidate Starts for Birchlyn_33:

(1, 14167), (Start: 7 @14083 has 24 MA's), (12, 14050), (21, 13891),

Gene: BlueOtter_35 Start: 14943, Stop: 14740, Start Num: 6

Candidate Starts for BlueOtter_35:

(Start: 6 @14943 has 23 MA's), (10, 14919), (17, 14847),

Gene: Bmoc_32 Start: 15380, Stop: 15177, Start Num: 6

Candidate Starts for Bmoc_32:

(Start: 6 @15380 has 23 MA's), (18, 15254),

Gene: BoomerJR_36 Start: 16035, Stop: 15829, Start Num: 7

Candidate Starts for BoomerJR_36:

(Start: 7 @16035 has 24 MA's), (12, 16002), (18, 15906), (21, 15843),

Gene: Bordeaux_34 Start: 16217, Stop: 16011, Start Num: 7

Candidate Starts for Bordeaux_34:
(1, 16301), (Start: 7 @16217 has 24 MA's), (12, 16184), (21, 16025),

Gene: Braelyn_33 Start: 15387, Stop: 15184, Start Num: 6
Candidate Starts for Braelyn_33:
(Start: 6 @15387 has 23 MA's), (9, 15369), (10, 15363), (14, 15342),

Gene: CeilingFan_38 Start: 15977, Stop: 15771, Start Num: 7
Candidate Starts for CeilingFan_38:
(1, 16061), (Start: 7 @15977 has 24 MA's), (12, 15944), (21, 15785),

Gene: Cross_33 Start: 14944, Stop: 14741, Start Num: 6
Candidate Starts for Cross_33:
(Start: 6 @14944 has 23 MA's), (10, 14920), (17, 14848),

Gene: Cursive_31 Start: 13761, Stop: 13558, Start Num: 6
Candidate Starts for Cursive_31:
(Start: 6 @13761 has 23 MA's), (10, 13737), (17, 13665),

Gene: Daubenski_35 Start: 15355, Stop: 15146, Start Num: 6
Candidate Starts for Daubenski_35:
(3, 15403), (Start: 6 @15355 has 23 MA's), (14, 15304), (17, 15253), (19, 15190),

Gene: EGole_33 Start: 15805, Stop: 15602, Start Num: 6
Candidate Starts for EGole_33:
(Start: 6 @15805 has 23 MA's), (11, 15778), (14, 15760), (18, 15679), (21, 15616),

Gene: Elmer_40 Start: 15504, Stop: 15298, Start Num: 7
Candidate Starts for Elmer_40:
(4, 15549), (5, 15540), (Start: 7 @15504 has 24 MA's), (12, 15471), (21, 15312),

Gene: Enygma_33 Start: 15348, Stop: 15142, Start Num: 7
Candidate Starts for Enygma_33:
(1, 15432), (Start: 7 @15348 has 24 MA's), (12, 15315), (21, 15156),

Gene: Genie2_36 Start: 16038, Stop: 15832, Start Num: 7
Candidate Starts for Genie2_36:
(Start: 7 @16038 has 24 MA's), (12, 16005), (18, 15909), (21, 15846),

Gene: Gibbi_38 Start: 15837, Stop: 15631, Start Num: 7
Candidate Starts for Gibbi_38:
(1, 15921), (Start: 7 @15837 has 24 MA's), (12, 15804), (21, 15645),

Gene: HangryHippo_35 Start: 14943, Stop: 14740, Start Num: 6
Candidate Starts for HangryHippo_35:
(Start: 6 @14943 has 23 MA's), (10, 14919), (17, 14847),

Gene: IchabodCrane_34 Start: 15929, Stop: 15723, Start Num: 7
Candidate Starts for IchabodCrane_34:
(1, 16013), (Start: 7 @15929 has 24 MA's), (12, 15896), (21, 15737),

Gene: JimJam_36 Start: 16165, Stop: 15959, Start Num: 7
Candidate Starts for JimJam_36:

(1, 16249), (Start: 7 @16165 has 24 MA's), (12, 16132), (21, 15973),

Gene: Jollison_39 Start: 16183, Stop: 15977, Start Num: 7

Candidate Starts for Jollison_39:

(1, 16267), (Start: 7 @16183 has 24 MA's), (12, 16150), (21, 15991),

Gene: Karimac_35 Start: 16332, Stop: 16126, Start Num: 7

Candidate Starts for Karimac_35:

(1, 16416), (Start: 7 @16332 has 24 MA's), (12, 16299), (21, 16140),

Gene: Larnav_38 Start: 14891, Stop: 14688, Start Num: 6

Candidate Starts for Larnav_38:

(Start: 6 @14891 has 23 MA's), (10, 14867), (17, 14795),

Gene: Leo04_33 Start: 14942, Stop: 14739, Start Num: 6

Candidate Starts for Leo04_33:

(Start: 6 @14942 has 23 MA's), (10, 14918), (17, 14846),

Gene: Liandry_33 Start: 14991, Stop: 14788, Start Num: 6

Candidate Starts for Liandry_33:

(Start: 6 @14991 has 23 MA's), (9, 14973), (10, 14967), (14, 14946), (20, 14814),

Gene: LilMartin_33 Start: 15194, Stop: 14985, Start Num: 6

Candidate Starts for LilMartin_33:

(Start: 6 @15194 has 23 MA's), (14, 15143), (15, 15131), (16, 15119), (20, 15011),

Gene: LukeCage_35 Start: 15915, Stop: 15709, Start Num: 7

Candidate Starts for LukeCage_35:

(1, 15999), (Start: 7 @15915 has 24 MA's), (12, 15882), (21, 15723),

Gene: Lululemon_35 Start: 14323, Stop: 14120, Start Num: 6

Candidate Starts for Lululemon_35:

(Start: 6 @14323 has 23 MA's), (10, 14299), (17, 14227),

Gene: Mildred21_34 Start: 15301, Stop: 15098, Start Num: 8

Candidate Starts for Mildred21_34:

(Start: 8 @15301 has 1 MA's), (12, 15271),

Gene: MindFlayer_34 Start: 15836, Stop: 15630, Start Num: 7

Candidate Starts for MindFlayer_34:

(1, 15920), (Start: 7 @15836 has 24 MA's), (12, 15803), (21, 15644),

Gene: Mugiwara_37 Start: 15798, Stop: 15625, Start Num: 12

Candidate Starts for Mugiwara_37:

(1, 15915), (2, 15888), (Start: 7 @15831 has 24 MA's), (12, 15798), (21, 15639),

Gene: MulchMansion_33 Start: 15195, Stop: 14986, Start Num: 6

Candidate Starts for MulchMansion_33:

(Start: 6 @15195 has 23 MA's), (14, 15144), (15, 15132), (16, 15120), (20, 15012),

Gene: NootNoot_30 Start: 14173, Stop: 13970, Start Num: 6

Candidate Starts for NootNoot_30:

(Start: 6 @14173 has 23 MA's), (9, 14155), (10, 14149), (14, 14128), (20, 13996),

Gene: Paradiddles_30 Start: 14164, Stop: 13961, Start Num: 6
Candidate Starts for Paradiddles_30:
(Start: 6 @14164 has 23 MA's), (9, 14146), (10, 14140), (14, 14119),

Gene: Peebs_32 Start: 14642, Stop: 14439, Start Num: 6
Candidate Starts for Peebs_32:
(Start: 6 @14642 has 23 MA's), (10, 14618), (17, 14546),

Gene: Pepperwood_33 Start: 14815, Stop: 14612, Start Num: 6
Candidate Starts for Pepperwood_33:
(Start: 6 @14815 has 23 MA's), (10, 14791),

Gene: Persimmon_30 Start: 14221, Stop: 14018, Start Num: 6
Candidate Starts for Persimmon_30:
(Start: 6 @14221 has 23 MA's), (9, 14203), (10, 14197), (14, 14176),

Gene: PinkiePie_33 Start: 14992, Stop: 14789, Start Num: 6
Candidate Starts for PinkiePie_33:
(Start: 6 @14992 has 23 MA's), (9, 14974), (10, 14968), (14, 14947), (20, 14815),

Gene: PumpkinSpice_35 Start: 16226, Stop: 16020, Start Num: 7
Candidate Starts for PumpkinSpice_35:
(1, 16310), (Start: 7 @16226 has 24 MA's), (12, 16193), (21, 16034),

Gene: Quaran19_36 Start: 16217, Stop: 16011, Start Num: 7
Candidate Starts for Quaran19_36:
(1, 16301), (Start: 7 @16217 has 24 MA's), (12, 16184), (21, 16025),

Gene: SaltySpittoon_36 Start: 16226, Stop: 16020, Start Num: 7
Candidate Starts for SaltySpittoon_36:
(1, 16310), (Start: 7 @16226 has 24 MA's), (12, 16193), (21, 16034),

Gene: Samisti12_32 Start: 15412, Stop: 15209, Start Num: 6
Candidate Starts for Samisti12_32:
(Start: 6 @15412 has 23 MA's), (10, 15388),

Gene: Sollertia_36 Start: 16038, Stop: 15832, Start Num: 7
Candidate Starts for Sollertia_36:
(Start: 7 @16038 has 24 MA's), (12, 16005), (18, 15909), (21, 15846),

Gene: Spelly_36 Start: 16181, Stop: 15975, Start Num: 7
Candidate Starts for Spelly_36:
(1, 16265), (Start: 7 @16181 has 24 MA's), (12, 16148), (21, 15989),

Gene: Spilled_36 Start: 15935, Stop: 15729, Start Num: 7
Candidate Starts for Spilled_36:
(1, 16019), (Start: 7 @15935 has 24 MA's), (12, 15902), (21, 15743),

Gene: Squillium_33 Start: 14991, Stop: 14788, Start Num: 6
Candidate Starts for Squillium_33:
(Start: 6 @14991 has 23 MA's), (9, 14973), (10, 14967), (14, 14946), (20, 14814),

Gene: Stanimal_36 Start: 16038, Stop: 15832, Start Num: 7
Candidate Starts for Stanimal_36:
(Start: 7 @16038 has 24 MA's), (12, 16005), (18, 15909), (21, 15846),

Gene: Starbow_34 Start: 16202, Stop: 15996, Start Num: 7
Candidate Starts for Starbow_34:
(1, 16286), (Start: 7 @16202 has 24 MA's), (12, 16169), (21, 16010),

Gene: Sushi23_33 Start: 15038, Stop: 14835, Start Num: 6
Candidate Starts for Sushi23_33:
(Start: 6 @15038 has 23 MA's), (10, 15014),

Gene: Teutsch_32 Start: 14731, Stop: 14528, Start Num: 6
Candidate Starts for Teutsch_32:
(Start: 6 @14731 has 23 MA's), (10, 14707),

Gene: TomSawyer_34 Start: 15820, Stop: 15614, Start Num: 7
Candidate Starts for TomSawyer_34:
(1, 15904), (Start: 7 @15820 has 24 MA's), (12, 15787), (21, 15628),

Gene: Watermoore_33 Start: 14944, Stop: 14741, Start Num: 6
Candidate Starts for Watermoore_33:
(Start: 6 @14944 has 23 MA's), (10, 14920), (17, 14848),

Gene: Wipeout_34 Start: 15842, Stop: 15636, Start Num: 7
Candidate Starts for Wipeout_34:
(1, 15926), (Start: 7 @15842 has 24 MA's), (12, 15809), (21, 15650),

Gene: Wofford_33 Start: 14982, Stop: 14776, Start Num: 7
Candidate Starts for Wofford_33:
(4, 15027), (5, 15018), (Start: 7 @14982 has 24 MA's), (12, 14949), (21, 14790),

Gene: Yaboi_37 Start: 16014, Stop: 15808, Start Num: 7
Candidate Starts for Yaboi_37:
(Start: 7 @16014 has 24 MA's), (12, 15981), (18, 15885), (21, 15822),