

Pham 280355



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 280355 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280355 has 81 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Persimmon_70, Squillum_73, Navo_72, Braelyn_73, Liandry_73, Bartholomune_72, WhereRU_71, NootNoot_70, Davielle_71, Paradiddles_70, PinkiePie_72
- Track 2 : Warpy_78, Jay2Jay_79
- Track 3 : Larnav_74, Cursive_72, Anedea_72, Sushi23_74, EGole_75, Leo04_75, HangryHippo_74, BlueOtter_74, LilSaint_78, Teutsch_74, Scheme_75, Tribute_72, Coogler_74, Cross_74, Watermoore_74, Peebs_73, Lululemon_73, Riptide_71, Pepperwood_74, PacManQ_73
- Track 4 : Evy_75, Targaryen_75
- Track 5 : Shuckle_72, Samisti12_74
- Track 6 : Daubenski_75, Cadmus_72
- Track 7 : LilMartin_71, MulchMansion_71, Angela_71, Marsus_72
- Track 8 : Mildred21_72
- Track 9 : Bmoc_72
- Track 10 : Starbow_74
- Track 11 : PumpkinSpice_75, AcciDwight_80, TomSawyer_74, Gibbi_80, CeilingFan_75, Birchlyn_73, Spelly_76, SaltySpittoon_76, Karimac_75, Rikishi_76, Amabiko_76, JimJam_76, MindFlayer_74, Wipeout_74
- Track 12 : Sollertia_76, BoomerJR_76, Stanimal_76, AngryGiraffe_75, Genie2_76, Yaboi_76
- Track 13 : Bordeaux_74, Spilled_77, Battuta_74, IchabodCrane_73, Brizzy_75
- Track 14 : Enygma_76
- Track 15 : Elmer_78
- Track 16 : Quarant19_76, Jollison_75, KentuckyRacer_76
- Track 17 : Wofford_75
- Track 18 : Tomas_78
- Track 19 : LukeCage_75, StarPlatinum_76, Mugiwara_75

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

The start number called the most often in the published annotations is 11, it was called in 38 of the 78 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anedea_72, Bartholomune_72, BlueOtter_74, Braelyn_73, Cadmus_72, Coogler_74, Cross_74, Cursive_72, Daubenski_75, Davielle_71, EGole_75, Elmer_78, Evy_75, HangryHippo_74, Larnav_74, Leo04_75, Liandry_73, LilSaint_78, Lululemon_73, Navo_72, NootNoot_70, PacManQ_73, Paradiddles_70, Peebs_73, Pepperwood_74, Persimmon_70, PinkiePie_72, Riptide_71, Samisti12_74, Scheme_75, Shuckle_72, Squillium_73, Sushi23_74, Targaryen_75, Teutsch_74, Tribute_72, Watermoore_74, WhereRU_71, Wofford_75,

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

- Jay2Jay_79, Warpy_78,

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

- AcciDwight_80, Amabiko_76, Angela_71, AngryGiraffe_75, Battuta_74, Birchlyn_73, Bmoc_72, BoomerJR_76, Bordeaux_74, Brizzy_75, CeilingFan_75, Enygma_76, Genie2_76, Gibbi_80, IchabodCrane_73, JimJam_76, Jollison_75, Karimac_75, KentuckyRacer_76, LilMartin_71, LukeCage_75, Marsus_72, Mildred21_72, MindFlayer_74, Mugiwara_75, MulchMansion_71, PumpkinSpice_75, Quarant19_76, Rikishi_76, SaltySpittoon_76, Sollertia_76, Spelly_76, Spilled_77, Stanimal_76, StarPlatinum_76, Starbow_74, TomSawyer_74, Tomas_78, Wipeout_74, Yaboi_76,

Summary by start number:

Start 8:

- Found in 8 of 81 (9.9%) of genes in pham
- Manual Annotations of this start: 1 of 78
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Tomas_78 (BE2),

Start 9:

- Found in 29 of 81 (35.8%) of genes in pham
- Manual Annotations of this start: 4 of 78
- Called 13.8% of time when present
- Phage (with cluster) where this start called: Jollison_75 (BE2), KentuckyRacer_76 (BE2), Quarant19_76 (BE2), Starbow_74 (BE2),

Start 10:

- Found in 6 of 81 (7.4%) of genes in pham
- Manual Annotations of this start: 6 of 78
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Angela_71 (BE1), Bmoc_72 (BE1), LilMartin_71 (BE1), Marsus_72 (BE1), Mildred21_72 (BE1), MulchMansion_71 (BE1),

Start 11:

- Found in 41 of 81 (50.6%) of genes in pham
- Manual Annotations of this start: 38 of 78
- Called 95.1% of time when present
- Phage (with cluster) where this start called: Anedea_72 (BE1), Bartholomune_72 (BE1), BlueOtter_74 (BE1), Braelyn_73 (BE1), Cadmus_72 (BE1), Coogler_74 (BE1), Cross_74 (BE1), Cursive_72 (BE1), Daubenski_75 (BE1), Davielle_71 (BE1), EGole_75 (BE1), Elmer_78 (BE2), Evy_75 (BE1), HangryHippo_74 (BE1), Larnav_74 (BE1), Leo04_75 (BE1), Liandry_73 (BE1), LilSaint_78 (BE1), Lululemon_73 (BE1), Navo_72 (BE1), NootNoot_70 (BE1), PacManQ_73 (BE1), Paradiddles_70 (BE1), Peebs_73 (BE1), Pepperwood_74 (BE1), Persimmon_70 (BE1), PinkiePie_72 (BE1),

Riptide_71 (BE1), Samisti12_74 (BE1), Scheme_75 (BE1), Shuckle_72 (BE1), Squillium_73 (BE1), Sushi23_74 (BE1), Targaryen_75 (BE1), Deutsch_74 (BE1), Tribute_72 (BE1), Watermoore_74 (BE1), WhereRU_71 (BE1), Wofford_75 (BE2),

Start 12:

- Found in 4 of 81 (4.9%) of genes in pham
- Manual Annotations of this start: 4 of 78
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Enygma_76 (BE2), LukeCage_75 (BE2), Mugiwara_75 (BE2), StarPlatinum_76 (BE2),

Start 13:

- Found in 26 of 81 (32.1%) of genes in pham
- Manual Annotations of this start: 23 of 78
- Called 96.2% of time when present
- Phage (with cluster) where this start called: AcciDwight_80 (BE2), Amabiko_76 (BE2), AngryGiraffe_75 (BE2), Battuta_74 (BE2), Birchlyn_73 (BE2), BoomerJR_76 (BE2), Bordeaux_74 (BE2), Brizzy_75 (BE2), CeilingFan_75 (BE2), Genie2_76 (BE2), Gibbi_80 (BE2), IchabodCrane_73 (BE2), JimJam_76 (BE2), Karimac_75 (BE2), MindFlayer_74 (BE2), PumpkinSpice_75 (BE2), Rikishi_76 (BE2), SaltySpittoon_76 (BE2), Sollertia_76 (BE2), Spelly_76 (BE2), Spilled_77 (BE2), Stanimal_76 (BE2), TomSawyer_74 (BE2), Wipeout_74 (BE2), Yaboi_76 (BE2),

Start 14:

- Found in 17 of 81 (21.0%) of genes in pham
- Manual Annotations of this start: 2 of 78
- Called 11.8% of time when present
- Phage (with cluster) where this start called: Jay2Jay_79 (BE1), Warpy_78 (BE1),

Summary by clusters:

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

Info for manual annotations of cluster BE1:

- Start number 10 was manually annotated 6 times for cluster BE1.
- Start number 11 was manually annotated 36 times for cluster BE1.
- Start number 14 was manually annotated 2 times for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 8 was manually annotated 1 time for cluster BE2.
- Start number 9 was manually annotated 4 times for cluster BE2.
- Start number 11 was manually annotated 2 times for cluster BE2.
- Start number 12 was manually annotated 4 times for cluster BE2.
- Start number 13 was manually annotated 23 times for cluster BE2.

Gene Information:

Gene: AcciDwight_80 Start: 54382, Stop: 54570, Start Num: 13

Candidate Starts for AcciDwight_80:

(3, 54331), (Start: 9 @54370 has 4 MA's), (Start: 13 @54382 has 23 MA's), (20, 54448), (25, 54511),

Gene: Amabiko_76 Start: 54427, Stop: 54615, Start Num: 13

Candidate Starts for Amabiko_76:

(3, 54376), (Start: 9 @54415 has 4 MA's), (Start: 13 @54427 has 23 MA's), (20, 54493), (25, 54556),

Gene: Anedea_72 Start: 53993, Stop: 54184, Start Num: 11

Candidate Starts for Anedea_72:

(6, 53972), (Start: 11 @53993 has 38 MA's), (23, 54119),

Gene: Angela_71 Start: 53445, Stop: 53642, Start Num: 10

Candidate Starts for Angela_71:

(5, 53421), (6, 53427), (Start: 10 @53445 has 6 MA's),

Gene: AngryGiraffe_75 Start: 54378, Stop: 54566, Start Num: 13

Candidate Starts for AngryGiraffe_75:

(3, 54327), (5, 54345), (Start: 8 @54363 has 1 MA's), (Start: 9 @54366 has 4 MA's), (Start: 13 @54378 has 23 MA's), (24, 54504), (25, 54507),

Gene: Bartholomune_72 Start: 53812, Stop: 54003, Start Num: 11

Candidate Starts for Bartholomune_72:

(6, 53791), (Start: 11 @53812 has 38 MA's), (Start: 14 @53821 has 2 MA's), (18, 53869),

Gene: Battuta_74 Start: 54401, Stop: 54589, Start Num: 13

Candidate Starts for Battuta_74:

(3, 54350), (Start: 9 @54389 has 4 MA's), (Start: 13 @54401 has 23 MA's), (25, 54530),

Gene: Birchlyn_73 Start: 52284, Stop: 52472, Start Num: 13

Candidate Starts for Birchlyn_73:

(3, 52233), (Start: 9 @52272 has 4 MA's), (Start: 13 @52284 has 23 MA's), (20, 52350), (25, 52413),

Gene: BlueOtter_74 Start: 55186, Stop: 55377, Start Num: 11

Candidate Starts for BlueOtter_74:

(6, 55165), (Start: 11 @55186 has 38 MA's), (23, 55312),

Gene: Bmoc_72 Start: 53803, Stop: 54021, Start Num: 10

Candidate Starts for Bmoc_72:

(4, 53770), (7, 53788), (Start: 10 @53803 has 6 MA's), (Start: 14 @53815 has 2 MA's), (23, 53932),

Gene: BoomerJR_76 Start: 54267, Stop: 54455, Start Num: 13

Candidate Starts for BoomerJR_76:

(3, 54216), (5, 54234), (Start: 8 @54252 has 1 MA's), (Start: 9 @54255 has 4 MA's), (Start: 13 @54267 has 23 MA's), (24, 54393), (25, 54396),

Gene: Bordeaux_74 Start: 54556, Stop: 54744, Start Num: 13

Candidate Starts for Bordeaux_74:

(3, 54505), (Start: 9 @54544 has 4 MA's), (Start: 13 @54556 has 23 MA's), (25, 54685),

Gene: Braelyn_73 Start: 54579, Stop: 54770, Start Num: 11

Candidate Starts for Braelyn_73:

(6, 54558), (Start: 11 @54579 has 38 MA's), (Start: 14 @54588 has 2 MA's), (18, 54636),

Gene: Brizzy_75 Start: 54075, Stop: 54263, Start Num: 13

Candidate Starts for Brizzy_75:

(3, 54024), (Start: 9 @54063 has 4 MA's), (Start: 13 @54075 has 23 MA's), (25, 54204),

Gene: Cadmus_72 Start: 54158, Stop: 54349, Start Num: 11

Candidate Starts for Cadmus_72:

(5, 54134), (6, 54140), (Start: 11 @54158 has 38 MA's), (16, 54179), (25, 54296), (27, 54332),

Gene: CeilingFan_75 Start: 54316, Stop: 54504, Start Num: 13

Candidate Starts for CeilingFan_75:

(3, 54265), (Start: 9 @54304 has 4 MA's), (Start: 13 @54316 has 23 MA's), (20, 54382), (25, 54445),

Gene: Coogler_74 Start: 55212, Stop: 55403, Start Num: 11

Candidate Starts for Coogler_74:

(6, 55191), (Start: 11 @55212 has 38 MA's), (23, 55338),

Gene: Cross_74 Start: 55187, Stop: 55378, Start Num: 11

Candidate Starts for Cross_74:

(6, 55166), (Start: 11 @55187 has 38 MA's), (23, 55313),

Gene: Cursive_72 Start: 54712, Stop: 54903, Start Num: 11

Candidate Starts for Cursive_72:

(6, 54691), (Start: 11 @54712 has 38 MA's), (23, 54838),

Gene: Daubenski_75 Start: 54922, Stop: 55113, Start Num: 11

Candidate Starts for Daubenski_75:

(5, 54898), (6, 54904), (Start: 11 @54922 has 38 MA's), (16, 54943), (25, 55060), (27, 55096),

Gene: Davielle_71 Start: 53999, Stop: 54190, Start Num: 11

Candidate Starts for Davielle_71:

(6, 53978), (Start: 11 @53999 has 38 MA's), (Start: 14 @54008 has 2 MA's), (18, 54056),

Gene: EGole_75 Start: 56133, Stop: 56324, Start Num: 11

Candidate Starts for EGole_75:

(6, 56112), (Start: 11 @56133 has 38 MA's), (23, 56259),

Gene: Elmer_78 Start: 55487, Stop: 55696, Start Num: 11

Candidate Starts for Elmer_78:

(2, 55427), (3, 55442), (6, 55466), (Start: 11 @55487 has 38 MA's), (18, 55556), (21, 55586),

Gene: Enygma_76 Start: 56198, Stop: 56398, Start Num: 12

Candidate Starts for Enygma_76:

(1, 56132), (3, 56150), (Start: 8 @56186 has 1 MA's), (Start: 12 @56198 has 4 MA's), (22, 56306),

Gene: Evy_75 Start: 55080, Stop: 55271, Start Num: 11

Candidate Starts for Evy_75:

(6, 55059), (Start: 11 @55080 has 38 MA's), (Start: 14 @55089 has 2 MA's), (18, 55137), (19, 55143),

Gene: Genie2_76 Start: 54381, Stop: 54569, Start Num: 13

Candidate Starts for Genie2_76:

(3, 54330), (5, 54348), (Start: 8 @54366 has 1 MA's), (Start: 9 @54369 has 4 MA's), (Start: 13 @54381 has 23 MA's), (24, 54507), (25, 54510),

Gene: Gibbi_80 Start: 54539, Stop: 54727, Start Num: 13

Candidate Starts for Gibbi_80:

(3, 54488), (Start: 9 @54527 has 4 MA's), (Start: 13 @54539 has 23 MA's), (20, 54605), (25, 54668),

Gene: HangryHippo_74 Start: 55186, Stop: 55377, Start Num: 11

Candidate Starts for HangryHippo_74:

(6, 55165), (Start: 11 @55186 has 38 MA's), (23, 55312),

Gene: IchabodCrane_73 Start: 54128, Stop: 54316, Start Num: 13

Candidate Starts for IchabodCrane_73:

(3, 54077), (Start: 9 @54116 has 4 MA's), (Start: 13 @54128 has 23 MA's), (25, 54257),

Gene: Jay2Jay_79 Start: 55942, Stop: 56124, Start Num: 14

Candidate Starts for Jay2Jay_79:

(6, 55912), (Start: 11 @55933 has 38 MA's), (Start: 14 @55942 has 2 MA's), (18, 55990), (19, 55996),

Gene: JimJam_76 Start: 54502, Stop: 54690, Start Num: 13

Candidate Starts for JimJam_76:

(3, 54451), (Start: 9 @54490 has 4 MA's), (Start: 13 @54502 has 23 MA's), (20, 54568), (25, 54631),

Gene: Jollison_75 Start: 54372, Stop: 54572, Start Num: 9

Candidate Starts for Jollison_75:

(3, 54333), (Start: 9 @54372 has 4 MA's), (20, 54450), (25, 54513),

Gene: Karimac_75 Start: 54533, Stop: 54721, Start Num: 13

Candidate Starts for Karimac_75:

(3, 54482), (Start: 9 @54521 has 4 MA's), (Start: 13 @54533 has 23 MA's), (20, 54599), (25, 54662),

Gene: KentuckyRacer_76 Start: 54305, Stop: 54505, Start Num: 9

Candidate Starts for KentuckyRacer_76:

(3, 54266), (Start: 9 @54305 has 4 MA's), (20, 54383), (25, 54446),

Gene: Larnav_74 Start: 55171, Stop: 55362, Start Num: 11

Candidate Starts for Larnav_74:

(6, 55150), (Start: 11 @55171 has 38 MA's), (23, 55297),

Gene: Leo04_75 Start: 55686, Stop: 55877, Start Num: 11

Candidate Starts for Leo04_75:

(6, 55665), (Start: 11 @55686 has 38 MA's), (23, 55812),

Gene: Liandry_73 Start: 54561, Stop: 54752, Start Num: 11

Candidate Starts for Liandry_73:

(6, 54540), (Start: 11 @54561 has 38 MA's), (Start: 14 @54570 has 2 MA's), (18, 54618),

Gene: LilMartin_71 Start: 53393, Stop: 53590, Start Num: 10

Candidate Starts for LilMartin_71:

(5, 53369), (6, 53375), (Start: 10 @53393 has 6 MA's),

Gene: LilSaint_78 Start: 53665, Stop: 53856, Start Num: 11

Candidate Starts for LilSaint_78:

(6, 53644), (Start: 11 @53665 has 38 MA's), (23, 53791),

Gene: LukeCage_75 Start: 54284, Stop: 54484, Start Num: 12

Candidate Starts for LukeCage_75:

(3, 54236), (Start: 12 @54284 has 4 MA's), (22, 54392),

Gene: Lululemon_73 Start: 54567, Stop: 54758, Start Num: 11

Candidate Starts for Lululemon_73:

(6, 54546), (Start: 11 @54567 has 38 MA's), (23, 54693),

Gene: Marsus_72 Start: 53665, Stop: 53862, Start Num: 10

Candidate Starts for Marsus_72:

(5, 53641), (6, 53647), (Start: 10 @53665 has 6 MA's),

Gene: Mildred21_72 Start: 53597, Stop: 53794, Start Num: 10

Candidate Starts for Mildred21_72:

(Start: 10 @53597 has 6 MA's), (Start: 14 @53609 has 2 MA's), (19, 53663), (20, 53675), (26, 53750),

Gene: MindFlayer_74 Start: 54035, Stop: 54223, Start Num: 13

Candidate Starts for MindFlayer_74:

(3, 53984), (Start: 9 @54023 has 4 MA's), (Start: 13 @54035 has 23 MA's), (20, 54101), (25, 54164),

Gene: Mugiwara_75 Start: 54783, Stop: 54983, Start Num: 12

Candidate Starts for Mugiwara_75:

(3, 54735), (Start: 12 @54783 has 4 MA's), (22, 54891),

Gene: MulchMansion_71 Start: 53393, Stop: 53590, Start Num: 10

Candidate Starts for MulchMansion_71:

(5, 53369), (6, 53375), (Start: 10 @53393 has 6 MA's),

Gene: Navo_72 Start: 54483, Stop: 54674, Start Num: 11

Candidate Starts for Navo_72:

(6, 54462), (Start: 11 @54483 has 38 MA's), (Start: 14 @54492 has 2 MA's), (18, 54540),

Gene: NootNoot_70 Start: 53475, Stop: 53666, Start Num: 11

Candidate Starts for NootNoot_70:

(6, 53454), (Start: 11 @53475 has 38 MA's), (Start: 14 @53484 has 2 MA's), (18, 53532),

Gene: PacManQ_73 Start: 54567, Stop: 54758, Start Num: 11

Candidate Starts for PacManQ_73:

(6, 54546), (Start: 11 @54567 has 38 MA's), (23, 54693),

Gene: Paradiddles_70 Start: 53739, Stop: 53930, Start Num: 11

Candidate Starts for Paradiddles_70:

(6, 53718), (Start: 11 @53739 has 38 MA's), (Start: 14 @53748 has 2 MA's), (18, 53796),

Gene: Peebs_73 Start: 54921, Stop: 55112, Start Num: 11

Candidate Starts for Peebs_73:

(6, 54900), (Start: 11 @54921 has 38 MA's), (23, 55047),

Gene: Pepperwood_74 Start: 55054, Stop: 55245, Start Num: 11

Candidate Starts for Pepperwood_74:

(6, 55033), (Start: 11 @55054 has 38 MA's), (23, 55180),

Gene: Persimmon_70 Start: 53408, Stop: 53599, Start Num: 11

Candidate Starts for Persimmon_70:

(6, 53387), (Start: 11 @53408 has 38 MA's), (Start: 14 @53417 has 2 MA's), (18, 53465),

Gene: PinkiePie_72 Start: 54561, Stop: 54752, Start Num: 11

Candidate Starts for PinkiePie_72:

(6, 54540), (Start: 11 @54561 has 38 MA's), (Start: 14 @54570 has 2 MA's), (18, 54618),

Gene: PumpkinSpice_75 Start: 54427, Stop: 54615, Start Num: 13

Candidate Starts for PumpkinSpice_75:

(3, 54376), (Start: 9 @54415 has 4 MA's), (Start: 13 @54427 has 23 MA's), (20, 54493), (25, 54556),

Gene: Quarant19_76 Start: 54406, Stop: 54606, Start Num: 9

Candidate Starts for Quarant19_76:

(3, 54367), (Start: 9 @54406 has 4 MA's), (20, 54484), (25, 54547),

Gene: Rikishi_76 Start: 54333, Stop: 54521, Start Num: 13

Candidate Starts for Rikishi_76:

(3, 54282), (Start: 9 @54321 has 4 MA's), (Start: 13 @54333 has 23 MA's), (20, 54399), (25, 54462),

Gene: Riptide_71 Start: 53209, Stop: 53400, Start Num: 11

Candidate Starts for Riptide_71:

(6, 53188), (Start: 11 @53209 has 38 MA's), (23, 53335),

Gene: SaltySpitoon_76 Start: 54427, Stop: 54615, Start Num: 13

Candidate Starts for SaltySpitoon_76:

(3, 54376), (Start: 9 @54415 has 4 MA's), (Start: 13 @54427 has 23 MA's), (20, 54493), (25, 54556),

Gene: Samisti12_74 Start: 56364, Stop: 56555, Start Num: 11

Candidate Starts for Samisti12_74:

(6, 56343), (Start: 11 @56364 has 38 MA's),

Gene: Scheme_75 Start: 55768, Stop: 55959, Start Num: 11

Candidate Starts for Scheme_75:

(6, 55747), (Start: 11 @55768 has 38 MA's), (23, 55894),

Gene: Shuckle_72 Start: 55378, Stop: 55569, Start Num: 11

Candidate Starts for Shuckle_72:

(6, 55357), (Start: 11 @55378 has 38 MA's),

Gene: Sollertia_76 Start: 54381, Stop: 54569, Start Num: 13

Candidate Starts for Sollertia_76:

(3, 54330), (5, 54348), (Start: 8 @54366 has 1 MA's), (Start: 9 @54369 has 4 MA's), (Start: 13 @54381 has 23 MA's), (24, 54507), (25, 54510),

Gene: Spelly_76 Start: 54382, Stop: 54570, Start Num: 13

Candidate Starts for Spelly_76:

(3, 54331), (Start: 9 @54370 has 4 MA's), (Start: 13 @54382 has 23 MA's), (20, 54448), (25, 54511),

Gene: Spilled_77 Start: 54499, Stop: 54687, Start Num: 13

Candidate Starts for Spilled_77:

(3, 54448), (Start: 9 @54487 has 4 MA's), (Start: 13 @54499 has 23 MA's), (25, 54628),

Gene: Squillium_73 Start: 54562, Stop: 54753, Start Num: 11

Candidate Starts for Squillium_73:

(6, 54541), (Start: 11 @54562 has 38 MA's), (Start: 14 @54571 has 2 MA's), (18, 54619),

Gene: Stanimal_76 Start: 54270, Stop: 54458, Start Num: 13

Candidate Starts for Stanimal_76:

(3, 54219), (5, 54237), (Start: 8 @54255 has 1 MA's), (Start: 9 @54258 has 4 MA's), (Start: 13 @54270 has 23 MA's), (24, 54396), (25, 54399),

Gene: StarPlatinum_76 Start: 54924, Stop: 55124, Start Num: 12

Candidate Starts for StarPlatinum_76:

(3, 54876), (Start: 12 @54924 has 4 MA's), (22, 55032),

Gene: Starbow_74 Start: 54391, Stop: 54591, Start Num: 9

Candidate Starts for Starbow_74:

(3, 54352), (Start: 9 @54391 has 4 MA's), (Start: 13 @54403 has 23 MA's), (25, 54532),

Gene: Sushi23_74 Start: 55279, Stop: 55470, Start Num: 11

Candidate Starts for Sushi23_74:

(6, 55258), (Start: 11 @55279 has 38 MA's), (23, 55405),

Gene: Targaryen_75 Start: 55982, Stop: 56173, Start Num: 11

Candidate Starts for Targaryen_75:

(6, 55961), (Start: 11 @55982 has 38 MA's), (Start: 14 @55991 has 2 MA's), (18, 56039), (19, 56045),

Gene: Deutsch_74 Start: 55542, Stop: 55733, Start Num: 11

Candidate Starts for Deutsch_74:

(6, 55521), (Start: 11 @55542 has 38 MA's), (23, 55668),

Gene: TomSawyer_74 Start: 54021, Stop: 54209, Start Num: 13

Candidate Starts for TomSawyer_74:

(3, 53970), (Start: 9 @54009 has 4 MA's), (Start: 13 @54021 has 23 MA's), (20, 54087), (25, 54150),

Gene: Tomas_78 Start: 56737, Stop: 56946, Start Num: 8

Candidate Starts for Tomas_78:

(Start: 8 @56737 has 1 MA's), (15, 56764), (17, 56773), (25, 56881), (28, 56926),

Gene: Tribute_72 Start: 54748, Stop: 54939, Start Num: 11

Candidate Starts for Tribute_72:

(6, 54727), (Start: 11 @54748 has 38 MA's), (23, 54874),

Gene: Warpy_78 Start: 55455, Stop: 55637, Start Num: 14

Candidate Starts for Warpy_78:

(6, 55425), (Start: 11 @55446 has 38 MA's), (Start: 14 @55455 has 2 MA's), (18, 55503), (19, 55509),

Gene: Watermoore_74 Start: 55758, Stop: 55949, Start Num: 11

Candidate Starts for Watermoore_74:

(6, 55737), (Start: 11 @55758 has 38 MA's), (23, 55884),

Gene: WhereRU_71 Start: 53999, Stop: 54190, Start Num: 11

Candidate Starts for WhereRU_71:

(6, 53978), (Start: 11 @53999 has 38 MA's), (Start: 14 @54008 has 2 MA's), (18, 54056),

Gene: Wipeout_74 Start: 54772, Stop: 54960, Start Num: 13

Candidate Starts for Wipeout_74:

(3, 54721), (Start: 9 @54760 has 4 MA's), (Start: 13 @54772 has 23 MA's), (20, 54838), (25, 54901),

Gene: Wofford_75 Start: 55450, Stop: 55659, Start Num: 11

Candidate Starts for Wofford_75:

(2, 55390), (3, 55405), (6, 55429), (Start: 11 @55450 has 38 MA's), (21, 55549),

Gene: Yaboi_76 Start: 54358, Stop: 54546, Start Num: 13

Candidate Starts for Yaboi_76:

(3, 54307), (5, 54325), (Start: 8 @54343 has 1 MA's), (Start: 9 @54346 has 4 MA's), (Start: 13 @54358 has 23 MA's), (24, 54484), (25, 54487),