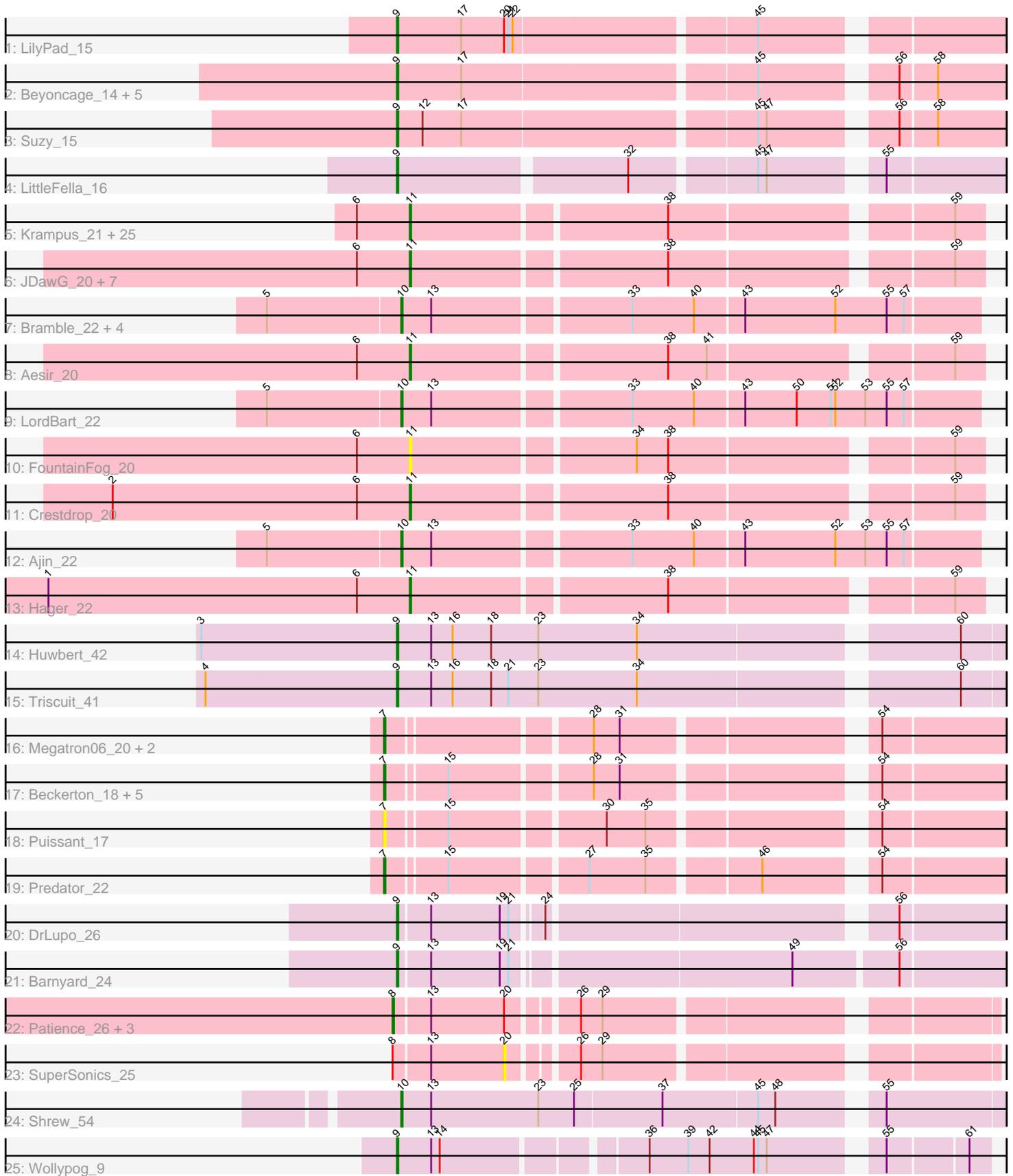


Pham 291105



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 291105 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291105 has 76 members, 8 are drafts.

Phages represented in each track:

- Track 1 : LilyPad_15
- Track 2 : Beyoncage_14, Terapin_14, Sienna_14, BiteSize_14, Djokovic_14, Madi_14
- Track 3 : Suzy_15
- Track 4 : LittleFella_16
- Track 5 : Krampus_21, OhDear_21, Anakin_21, DannyDe_20, Artiphact_21, SilentWarrior_20, Hiddenleaf_20, Potty_21, Chivey_20, Poultruss_20, Haunter_21, AnnaSerena_21, Tedro_21, JingleBells_20, Cybele_21, PhunaPhoke_21, Snakehole_22, Rachella_21, Kate_21, OverHedge_21, FreddieHg_20, CoolCookie_21, Neptune_21, NarutoRun_21, Pharpay_21, Gilda_21
- Track 6 : JDawG_20, Dauntless_20, MortySmith_19, Tongui_20, Annapurna_20, Erudite_20, Rie18_21, Karate_20
- Track 7 : Bramble_22, TinyMiny_22, RikSengupta_22, Sparcetus_22, Kors_22
- Track 8 : Aesir_20
- Track 9 : LordBart_22
- Track 10 : FountainFog_20
- Track 11 : Crestdrop_20
- Track 12 : Ajin_22
- Track 13 : Hager_22
- Track 14 : Huwbert_42
- Track 15 : Triscuit_41
- Track 16 : Megatron06_20, Thumb_18, BobtimousPrime_17
- Track 17 : Beckerton_18, Cborch11_19, Phreeze_18, Damien_18, Oaker_18, Konstantine_23
- Track 18 : Puissant_17
- Track 19 : Predator_22
- Track 20 : DrLupo_26
- Track 21 : Barnyard_24
- Track 22 : Patience_26, Labelle_25, Madruga_24, Demikore_26
- Track 23 : SuperSonics_25
- Track 24 : Shrew_54
- Track 25 : Wollypog_9

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 34 of the 68 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aesir_20, Anakin_21, AnnaSerena_21, Annapurna_20, Artiphact_21, Chivey_20, CoolCookie_21, Crestdrop_20, Cybele_21, DannyDe_20, Dauntless_20, Erudite_20, FountainFog_20, FreddieHg_20, Gilda_21, Hager_22, Haunter_21, Hiddenleaf_20, JDawG_20, JingleBells_20, Karate_20, Kate_21, Krampus_21, MortySmith_19, NarutoRun_21, Neptune_21, OhDear_21, OverHedge_21, Pharpay_21, PhunaPhoke_21, Potty_21, Poultruss_20, Rachella_21, Rie18_21, SilentWarrior_20, Snakehole_22, Tedro_21, Tongui_20,

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

-

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

- Ajin_22, Barnyard_24, Beckerton_18, Beyoncage_14, BiteSize_14, BobtimousPrime_17, Bramble_22, Cborch11_19, Damien_18, Demikore_26, Djokovic_14, DrLupo_26, Huwbert_42, Konstantine_23, Kors_22, Labelle_25, LilyPad_15, LittleFella_16, LordBart_22, Madi_14, Madrugua_24, Megatron06_20, Oaker_18, Patience_26, Phreeze_18, Predator_22, Puissant_17, RikSengupta_22, Shrew_54, Sienna_14, Sparcetus_22, SuperSonics_25, Suzy_15, Terapin_14, Thumb_18, TinyMiny_22, Triscuit_41, Wollypog_9,

Summary by start number:

Start 7:

- Found in 11 of 76 (14.5%) of genes in pham
- Manual Annotations of this start: 9 of 68
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beckerton_18 (H1), BobtimousPrime_17 (H1), Cborch11_19 (H1), Damien_18 (H1), Konstantine_23 (H1), Megatron06_20 (H1), Oaker_18 (H1), Phreeze_18 (H1), Predator_22 (H1), Puissant_17 (H1), Thumb_18 (H1),

Start 8:

- Found in 5 of 76 (6.6%) of genes in pham
- Manual Annotations of this start: 3 of 68
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Demikore_26 (U), Labelle_25 (U), Madrugua_24 (U), Patience_26 (U),

Start 9:

- Found in 14 of 76 (18.4%) of genes in pham
- Manual Annotations of this start: 14 of 68
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Barnyard_24 (H2), Beyoncage_14 (DG1), BiteSize_14 (DG1), Djokovic_14 (DG1), DrLupo_26 (H2), Huwbert_42 (GG), LilyPad_15 (DG1), LittleFella_16 (DG2), Madi_14 (DG1), Sienna_14 (DG1), Suzy_15 (DG1), Terapin_14 (DG1), Triscuit_41 (GG), Wollypog_9 (singleton),

Start 10:

- Found in 8 of 76 (10.5%) of genes in pham
- Manual Annotations of this start: 8 of 68
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ajin_22 (EF), Bramble_22 (EF), Kors_22 (EF), LordBart_22 (EF), RikSengupta_22 (EF), Shrew_54 (singleton), Sparcetus_22 (EF), TinyMiny_22 (EF),

Start 11:

- Found in 38 of 76 (50.0%) of genes in pham
- Manual Annotations of this start: 34 of 68
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aesir_20 (EF), Anakin_21 (EF), AnnaSerena_21 (EF), Annapurna_20 (EF), Artiphact_21 (EF), Chivey_20 (EF), CoolCookie_21 (EF), Crestdrop_20 (EF), Cybele_21 (EF), DannyDe_20 (EF), Dauntless_20 (EF), Erudite_20 (EF), FountainFog_20 (EF), FreddieHg_20 (EF), Gilda_21 (EF), Hager_22 (EF), Haunter_21 (EF), Hiddenleaf_20 (EF), JDawG_20 (EF), JingleBells_20 (EF), Karate_20 (EF), Kate_21 (EF), Krampus_21 (EF), MortySmith_19 (EF), NarutoRun_21 (EF), Neptune_21 (EF), OhDear_21 (EF), OverHedge_21 (EF), Pharpay_21 (EF), PhunaPhoke_21 (EF), Potty_21 (EF), Poultruss_20 (EF), Rachella_21 (EF), Rie18_21 (EF), SilentWarrior_20 (EF), Snakehole_22 (EF), Tedro_21 (EF), Tongui_20 (EF),

Start 20:

- Found in 6 of 76 (7.9%) of genes in pham
- No Manual Annotations of this start.
- Called 16.7% of time when present
- Phage (with cluster) where this start called: SuperSonics_25 (U),

Summary by clusters:

There are 8 clusters represented in this pham: GG, singleton, EF, H2, H1, DG2, DG1, U,

Info for manual annotations of cluster DG1:

- Start number 9 was manually annotated 8 times for cluster DG1.

Info for manual annotations of cluster DG2:

- Start number 9 was manually annotated 1 time for cluster DG2.

Info for manual annotations of cluster EF:

- Start number 10 was manually annotated 7 times for cluster EF.
- Start number 11 was manually annotated 34 times for cluster EF.

Info for manual annotations of cluster GG:

- Start number 9 was manually annotated 2 times for cluster GG.

Info for manual annotations of cluster H1:

- Start number 7 was manually annotated 9 times for cluster H1.

Info for manual annotations of cluster H2:

- Start number 9 was manually annotated 2 times for cluster H2.

Info for manual annotations of cluster U:

- Start number 8 was manually annotated 3 times for cluster U.

Gene Information:

Gene: Aesir_20 Start: 11440, Stop: 11808, Start Num: 11

Candidate Starts for Aesir_20:

(6, 11404), (Start: 11 @11440 has 34 MA's), (38, 11608), (41, 11635), (59, 11788),

Gene: Ajin_22 Start: 11605, Stop: 11991, Start Num: 10

Candidate Starts for Ajin_22:

(5, 11515), (Start: 10 @11605 has 8 MA's), (13, 11626), (33, 11755), (40, 11797), (43, 11830), (52, 11893), (53, 11914), (55, 11929), (57, 11941),

Gene: Anakin_21 Start: 11650, Stop: 12018, Start Num: 11

Candidate Starts for Anakin_21:

(6, 11614), (Start: 11 @11650 has 34 MA's), (38, 11818), (59, 11998),

Gene: AnnaSerena_21 Start: 11659, Stop: 12027, Start Num: 11

Candidate Starts for AnnaSerena_21:

(6, 11623), (Start: 11 @11659 has 34 MA's), (38, 11827), (59, 12007),

Gene: Annapurna_20 Start: 10859, Stop: 11227, Start Num: 11

Candidate Starts for Annapurna_20:

(6, 10823), (Start: 11 @10859 has 34 MA's), (38, 11027), (59, 11207),

Gene: Artiphact_21 Start: 11651, Stop: 12019, Start Num: 11

Candidate Starts for Artiphact_21:

(6, 11615), (Start: 11 @11651 has 34 MA's), (38, 11819), (59, 11999),

Gene: Barnyard_24 Start: 14273, Stop: 14668, Start Num: 9

Candidate Starts for Barnyard_24:

(Start: 9 @14273 has 14 MA's), (13, 14294), (19, 14342), (21, 14348), (49, 14528), (56, 14597),

Gene: Beckerton_18 Start: 13163, Stop: 13546, Start Num: 7

Candidate Starts for Beckerton_18:

(Start: 7 @13163 has 9 MA's), (15, 13202), (28, 13292), (31, 13310), (54, 13463),

Gene: Beyoncage_14 Start: 9137, Stop: 9526, Start Num: 9

Candidate Starts for Beyoncage_14:

(Start: 9 @9137 has 14 MA's), (17, 9182), (45, 9374), (56, 9455), (58, 9479),

Gene: BiteSize_14 Start: 9137, Stop: 9526, Start Num: 9

Candidate Starts for BiteSize_14:

(Start: 9 @9137 has 14 MA's), (17, 9182), (45, 9374), (56, 9455), (58, 9479),

Gene: BobtimousPrime_17 Start: 13083, Stop: 13466, Start Num: 7

Candidate Starts for BobtimousPrime_17:

(Start: 7 @13083 has 9 MA's), (28, 13212), (31, 13230), (54, 13383),

Gene: Bramble_22 Start: 11570, Stop: 11956, Start Num: 10

Candidate Starts for Bramble_22:

(5, 11480), (Start: 10 @11570 has 8 MA's), (13, 11591), (33, 11720), (40, 11762), (43, 11795), (52, 11858), (55, 11894), (57, 11906),

Gene: Cborch11_19 Start: 12626, Stop: 13009, Start Num: 7

Candidate Starts for Cborch11_19:

(Start: 7 @12626 has 9 MA's), (15, 12665), (28, 12755), (31, 12773), (54, 12926),

Gene: Chivey_20 Start: 10852, Stop: 11220, Start Num: 11

Candidate Starts for Chivey_20:

(6, 10816), (Start: 11 @10852 has 34 MA's), (38, 11020), (59, 11200),

Gene: CoolCookie_21 Start: 11657, Stop: 12025, Start Num: 11

Candidate Starts for CoolCookie_21:

(6, 11621), (Start: 11 @11657 has 34 MA's), (38, 11825), (59, 12005),

Gene: Crestdrop_20 Start: 10726, Stop: 11094, Start Num: 11

Candidate Starts for Crestdrop_20:

(2, 10519), (6, 10690), (Start: 11 @10726 has 34 MA's), (38, 10894), (59, 11074),

Gene: Cybele_21 Start: 11627, Stop: 11995, Start Num: 11

Candidate Starts for Cybele_21:

(6, 11591), (Start: 11 @11627 has 34 MA's), (38, 11795), (59, 11975),

Gene: Damien_18 Start: 12625, Stop: 13008, Start Num: 7

Candidate Starts for Damien_18:

(Start: 7 @12625 has 9 MA's), (15, 12664), (28, 12754), (31, 12772), (54, 12925),

Gene: DannyDe_20 Start: 10844, Stop: 11212, Start Num: 11

Candidate Starts for DannyDe_20:

(6, 10808), (Start: 11 @10844 has 34 MA's), (38, 11012), (59, 11192),

Gene: Dauntless_20 Start: 11369, Stop: 11737, Start Num: 11

Candidate Starts for Dauntless_20:

(6, 11333), (Start: 11 @11369 has 34 MA's), (38, 11537), (59, 11717),

Gene: Demikore_26 Start: 15829, Stop: 16200, Start Num: 8

Candidate Starts for Demikore_26:

(Start: 8 @15829 has 3 MA's), (13, 15853), (20, 15904), (26, 15943), (29, 15958),

Gene: Djokovic_14 Start: 9137, Stop: 9526, Start Num: 9

Candidate Starts for Djokovic_14:

(Start: 9 @9137 has 14 MA's), (17, 9182), (45, 9374), (56, 9455), (58, 9479),

Gene: DrLupo_26 Start: 14684, Stop: 15067, Start Num: 9

Candidate Starts for DrLupo_26:

(Start: 9 @14684 has 14 MA's), (13, 14705), (19, 14753), (21, 14759), (24, 14777), (56, 14996),

Gene: Erudite_20 Start: 11369, Stop: 11737, Start Num: 11

Candidate Starts for Erudite_20:

(6, 11333), (Start: 11 @11369 has 34 MA's), (38, 11537), (59, 11717),

Gene: FountainFog_20 Start: 10978, Stop: 11346, Start Num: 11

Candidate Starts for FountainFog_20:

(6, 10942), (Start: 11 @10978 has 34 MA's), (34, 11125), (38, 11146), (59, 11326),

Gene: FreddieHg_20 Start: 10868, Stop: 11236, Start Num: 11

Candidate Starts for FreddieHg_20:

(6, 10832), (Start: 11 @10868 has 34 MA's), (38, 11036), (59, 11216),

Gene: Gilda_21 Start: 11651, Stop: 12019, Start Num: 11

Candidate Starts for Gilda_21:

(6, 11615), (Start: 11 @11651 has 34 MA's), (38, 11819), (59, 11999),

Gene: Hager_22 Start: 11222, Stop: 11590, Start Num: 11

Candidate Starts for Hager_22:

(1, 10970), (6, 11186), (Start: 11 @11222 has 34 MA's), (38, 11390), (59, 11570),

Gene: Haunter_21 Start: 11064, Stop: 11432, Start Num: 11

Candidate Starts for Haunter_21:

(6, 11028), (Start: 11 @11064 has 34 MA's), (38, 11232), (59, 11412),

Gene: Hiddenleaf_20 Start: 10852, Stop: 11220, Start Num: 11

Candidate Starts for Hiddenleaf_20:

(6, 10816), (Start: 11 @10852 has 34 MA's), (38, 11020), (59, 11200),

Gene: Huwbert_42 Start: 21947, Stop: 22348, Start Num: 9

Candidate Starts for Huwbert_42:

(3, 21812), (Start: 9 @21947 has 14 MA's), (13, 21971), (16, 21986), (18, 22013), (23, 22046), (34, 22115), (60, 22319),

Gene: JDawG_20 Start: 11434, Stop: 11802, Start Num: 11

Candidate Starts for JDawG_20:

(6, 11398), (Start: 11 @11434 has 34 MA's), (38, 11602), (59, 11782),

Gene: JingleBells_20 Start: 10933, Stop: 11301, Start Num: 11

Candidate Starts for JingleBells_20:

(6, 10897), (Start: 11 @10933 has 34 MA's), (38, 11101), (59, 11281),

Gene: Karate_20 Start: 11072, Stop: 11440, Start Num: 11

Candidate Starts for Karate_20:

(6, 11036), (Start: 11 @11072 has 34 MA's), (38, 11240), (59, 11420),

Gene: Kate_21 Start: 11659, Stop: 12027, Start Num: 11

Candidate Starts for Kate_21:

(6, 11623), (Start: 11 @11659 has 34 MA's), (38, 11827), (59, 12007),

Gene: Konstantine_23 Start: 13827, Stop: 14210, Start Num: 7

Candidate Starts for Konstantine_23:

(Start: 7 @13827 has 9 MA's), (15, 13866), (28, 13956), (31, 13974), (54, 14127),

Gene: Kors_22 Start: 11651, Stop: 12037, Start Num: 10

Candidate Starts for Kors_22:

(5, 11561), (Start: 10 @11651 has 8 MA's), (13, 11672), (33, 11801), (40, 11843), (43, 11876), (52, 11939), (55, 11975), (57, 11987),

Gene: Krampus_21 Start: 11657, Stop: 12025, Start Num: 11

Candidate Starts for Krampus_21:

(6, 11621), (Start: 11 @11657 has 34 MA's), (38, 11825), (59, 12005),

Gene: Labelle_25 Start: 15831, Stop: 16202, Start Num: 8

Candidate Starts for Labelle_25:

(Start: 8 @15831 has 3 MA's), (13, 15855), (20, 15906), (26, 15945), (29, 15960),

Gene: LilyPad_15 Start: 9856, Stop: 10245, Start Num: 9

Candidate Starts for LilyPad_15:

(Start: 9 @9856 has 14 MA's), (17, 9901), (20, 9931), (21, 9934), (22, 9937), (45, 10093),

Gene: LittleFella_16 Start: 11757, Stop: 12137, Start Num: 9

Candidate Starts for LittleFella_16:

(Start: 9 @11757 has 14 MA's), (32, 11907), (45, 11985), (47, 11991), (55, 12057),

Gene: LordBart_22 Start: 11567, Stop: 11953, Start Num: 10

Candidate Starts for LordBart_22:

(5, 11477), (Start: 10 @11567 has 8 MA's), (13, 11588), (33, 11717), (40, 11759), (43, 11792), (50, 11828), (51, 11852), (52, 11855), (53, 11876), (55, 11891), (57, 11903),

Gene: Madi_14 Start: 9137, Stop: 9526, Start Num: 9

Candidate Starts for Madi_14:

(Start: 9 @9137 has 14 MA's), (17, 9182), (45, 9374), (56, 9455), (58, 9479),

Gene: Madruga_24 Start: 15500, Stop: 15871, Start Num: 8

Candidate Starts for Madruga_24:

(Start: 8 @15500 has 3 MA's), (13, 15524), (20, 15575), (26, 15614), (29, 15629),

Gene: Megatron06_20 Start: 13160, Stop: 13543, Start Num: 7

Candidate Starts for Megatron06_20:

(Start: 7 @13160 has 9 MA's), (28, 13289), (31, 13307), (54, 13460),

Gene: MortySmith_19 Start: 10831, Stop: 11199, Start Num: 11

Candidate Starts for MortySmith_19:

(6, 10795), (Start: 11 @10831 has 34 MA's), (38, 10999), (59, 11179),

Gene: NarutoRun_21 Start: 11650, Stop: 12018, Start Num: 11

Candidate Starts for NarutoRun_21:

(6, 11614), (Start: 11 @11650 has 34 MA's), (38, 11818), (59, 11998),

Gene: Neptune_21 Start: 11627, Stop: 11995, Start Num: 11

Candidate Starts for Neptune_21:

(6, 11591), (Start: 11 @11627 has 34 MA's), (38, 11795), (59, 11975),

Gene: Oaker_18 Start: 12884, Stop: 13267, Start Num: 7

Candidate Starts for Oaker_18:

(Start: 7 @12884 has 9 MA's), (15, 12923), (28, 13013), (31, 13031), (54, 13184),

Gene: OhDear_21 Start: 11656, Stop: 12024, Start Num: 11

Candidate Starts for OhDear_21:

(6, 11620), (Start: 11 @11656 has 34 MA's), (38, 11824), (59, 12004),

Gene: OverHedge_21 Start: 11624, Stop: 11992, Start Num: 11

Candidate Starts for OverHedge_21:
(6, 11588), (Start: 11 @11624 has 34 MA's), (38, 11792), (59, 11972),

Gene: Patience_26 Start: 16390, Stop: 16761, Start Num: 8
Candidate Starts for Patience_26:
(Start: 8 @16390 has 3 MA's), (13, 16414), (20, 16465), (26, 16504), (29, 16519),

Gene: Pharpay_21 Start: 11672, Stop: 12040, Start Num: 11
Candidate Starts for Pharpay_21:
(6, 11636), (Start: 11 @11672 has 34 MA's), (38, 11840), (59, 12020),

Gene: Phreeze_18 Start: 12625, Stop: 13008, Start Num: 7
Candidate Starts for Phreeze_18:
(Start: 7 @12625 has 9 MA's), (15, 12664), (28, 12754), (31, 12772), (54, 12925),

Gene: PhunaPhoke_21 Start: 11645, Stop: 12013, Start Num: 11
Candidate Starts for PhunaPhoke_21:
(6, 11609), (Start: 11 @11645 has 34 MA's), (38, 11813), (59, 11993),

Gene: Potty_21 Start: 11650, Stop: 12018, Start Num: 11
Candidate Starts for Potty_21:
(6, 11614), (Start: 11 @11650 has 34 MA's), (38, 11818), (59, 11998),

Gene: Poultruss_20 Start: 11423, Stop: 11791, Start Num: 11
Candidate Starts for Poultruss_20:
(6, 11387), (Start: 11 @11423 has 34 MA's), (38, 11591), (59, 11771),

Gene: Predator_22 Start: 14150, Stop: 14533, Start Num: 7
Candidate Starts for Predator_22:
(Start: 7 @14150 has 9 MA's), (15, 14189), (27, 14276), (35, 14315), (46, 14384), (54, 14450),

Gene: Puissant_17 Start: 13081, Stop: 13464, Start Num: 7
Candidate Starts for Puissant_17:
(Start: 7 @13081 has 9 MA's), (15, 13120), (30, 13219), (35, 13246), (54, 13381),

Gene: Rachella_21 Start: 11653, Stop: 12021, Start Num: 11
Candidate Starts for Rachella_21:
(6, 11617), (Start: 11 @11653 has 34 MA's), (38, 11821), (59, 12001),

Gene: Rie18_21 Start: 11004, Stop: 11372, Start Num: 11
Candidate Starts for Rie18_21:
(6, 10968), (Start: 11 @11004 has 34 MA's), (38, 11172), (59, 11352),

Gene: RikSengupta_22 Start: 11688, Stop: 12074, Start Num: 10
Candidate Starts for RikSengupta_22:
(5, 11598), (Start: 10 @11688 has 8 MA's), (13, 11709), (33, 11838), (40, 11880), (43, 11913), (52, 11976), (55, 12012), (57, 12024),

Gene: Shrew_54 Start: 26408, Stop: 26803, Start Num: 10
Candidate Starts for Shrew_54:
(Start: 10 @26408 has 8 MA's), (13, 26429), (23, 26504), (25, 26528), (37, 26588), (45, 26651), (48, 26663), (55, 26723),

Gene: Sienna_14 Start: 9137, Stop: 9526, Start Num: 9
Candidate Starts for Sienna_14:
(Start: 9 @9137 has 14 MA's), (17, 9182), (45, 9374), (56, 9455), (58, 9479),

Gene: SilentWarrior_20 Start: 10860, Stop: 11228, Start Num: 11
Candidate Starts for SilentWarrior_20:
(6, 10824), (Start: 11 @10860 has 34 MA's), (38, 11028), (59, 11208),

Gene: Snakehole_22 Start: 10949, Stop: 11317, Start Num: 11
Candidate Starts for Snakehole_22:
(6, 10913), (Start: 11 @10949 has 34 MA's), (38, 11117), (59, 11297),

Gene: Sparcetus_22 Start: 11567, Stop: 11953, Start Num: 10
Candidate Starts for Sparcetus_22:
(5, 11477), (Start: 10 @11567 has 8 MA's), (13, 11588), (33, 11717), (40, 11759), (43, 11792), (52, 11855), (55, 11891), (57, 11903),

Gene: SuperSonics_25 Start: 15632, Stop: 15928, Start Num: 20
Candidate Starts for SuperSonics_25:
(Start: 8 @15557 has 3 MA's), (13, 15581), (20, 15632), (26, 15671), (29, 15686),

Gene: Suzy_15 Start: 10365, Stop: 10754, Start Num: 9
Candidate Starts for Suzy_15:
(Start: 9 @10365 has 14 MA's), (12, 10383), (17, 10410), (45, 10602), (47, 10608), (56, 10683), (58, 10707),

Gene: Tedro_21 Start: 11123, Stop: 11491, Start Num: 11
Candidate Starts for Tedro_21:
(6, 11087), (Start: 11 @11123 has 34 MA's), (38, 11291), (59, 11471),

Gene: Terapin_14 Start: 9137, Stop: 9526, Start Num: 9
Candidate Starts for Terapin_14:
(Start: 9 @9137 has 14 MA's), (17, 9182), (45, 9374), (56, 9455), (58, 9479),

Gene: Thumb_18 Start: 12626, Stop: 13009, Start Num: 7
Candidate Starts for Thumb_18:
(Start: 7 @12626 has 9 MA's), (28, 12755), (31, 12773), (54, 12926),

Gene: TinyMiny_22 Start: 11586, Stop: 11972, Start Num: 10
Candidate Starts for TinyMiny_22:
(5, 11496), (Start: 10 @11586 has 8 MA's), (13, 11607), (33, 11736), (40, 11778), (43, 11811), (52, 11874), (55, 11910), (57, 11922),

Gene: Tongui_20 Start: 10996, Stop: 11364, Start Num: 11
Candidate Starts for Tongui_20:
(6, 10960), (Start: 11 @10996 has 34 MA's), (38, 11164), (59, 11344),

Gene: Triscuit_41 Start: 21862, Stop: 22263, Start Num: 9
Candidate Starts for Triscuit_41:
(4, 21730), (Start: 9 @21862 has 14 MA's), (13, 21886), (16, 21901), (18, 21928), (21, 21940), (23, 21961), (34, 22030), (60, 22234),

Gene: Wollypog_9 Start: 8239, Stop: 8610, Start Num: 9

Candidate Starts for Wollypog_9:

(Start: 9 @8239 has 14 MA's), (13, 8263), (14, 8269), (36, 8398), (39, 8425), (42, 8440), (44, 8470),
(45, 8473), (47, 8479), (55, 8545), (61, 8596),