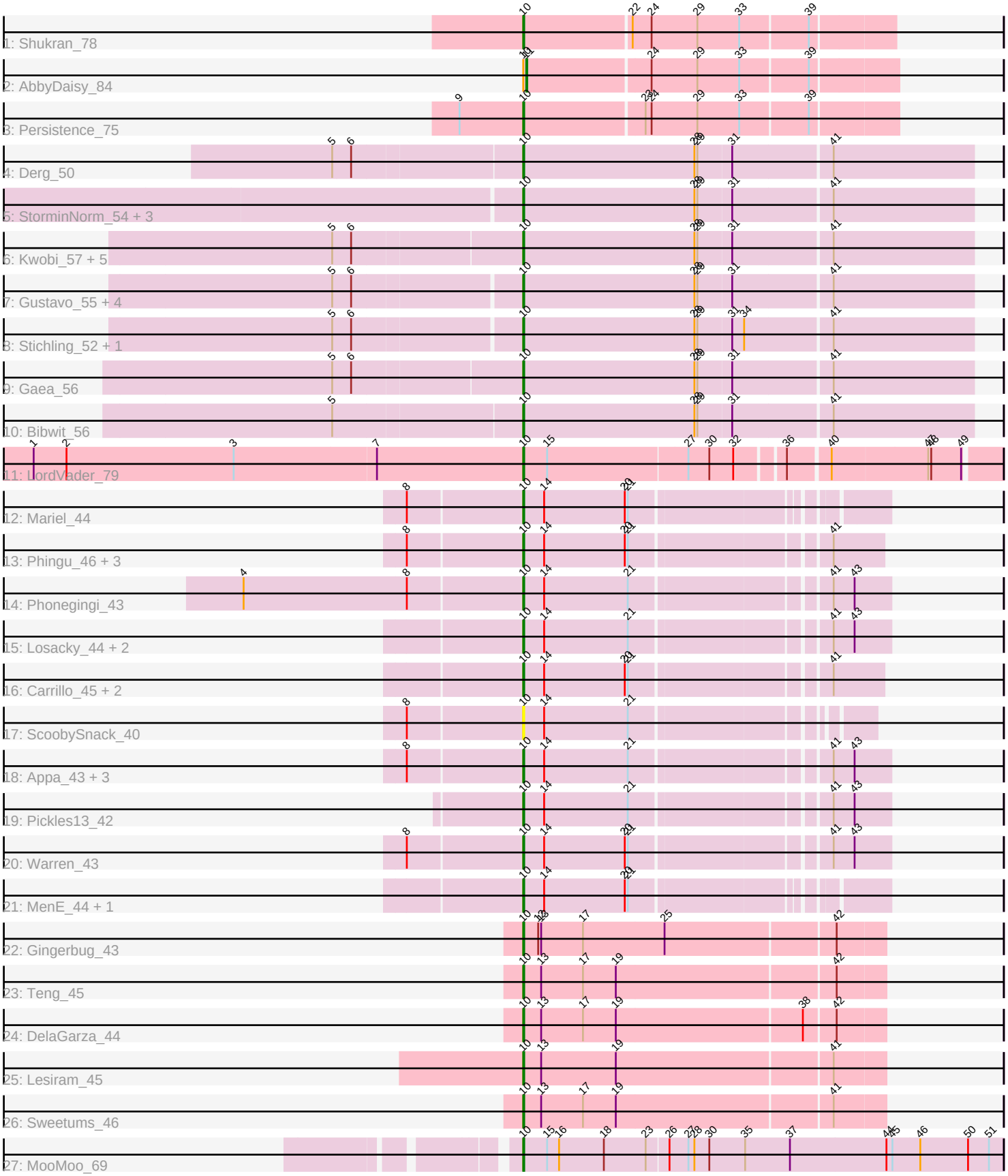
Pham 347711


1: Shukran_78
2: AbbyDaisy_84
3: Persistence_75
4: Derg_50
5: StorminNorm_54 + 3
6: Kwobi_57 + 5
7: Gustavo_55 + 4
8: Stichling_52 + 1
9: Gaea_56
10: Bibwit_56
11: LordVader_79
12: Mariel_44
13: Phingu_46 + 3
14: Phonegingi_43
15: Losacky_44 + 2
16: Carrillo_45 + 2
17: ScoobySnack_40
18: Appa_43 + 3
19: Pickles13_42
20: Warren_43
21: MenE_44 + 1
22: Gingerbug_43
23: Teng_45
24: DelaGarza_44
25: Lesiram_45
26: Sweetums_46
27: MooMoo_69

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 347711 Report

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

Pham number 347711 has 51 members, 5 are drafts.

Phages represented in each track:
- Track 1 : Shukran_78
- Track 2 : AbbyDaisy_84
- Track 3 : Persistence_75
- Track 4 : Derg_50
- Track 5 : StorminNorm_54, LilHam_52, Baumdotcom_53, Tycho_54
- Track 6 : Kwobi_57, Ribeye_55, Bizzy_55, YorkOnyx_56, SchottB_53, Kroos_55
- Track 7 : Gustavo_55, Flatwoods_55, Saronaya_55, Tangerine_54, Baddon_55
- Track 8 : Stichling_52, JKSyngboy_53
- Track 9 : Gaea_56
- Track 10 : Bibwit_56
- Track 11 : LordVader_79
- Track 12 : Mariel_44
- Track 13 : Phingu_46, Bush_44, Blett_43, NCRodriguez_45
- Track 14 : Phonegingi_43
- Track 15 : Losacky_44, Jakelyne_45, Guzman_43
- Track 16 : Carrillo_45, Violeta_45, CookieDog_43
- Track 17 : ScoobySnack_40
- Track 18 : Appa_43, Winchester007_45, PhillyJawn_44, Dropshot_43
- Track 19 : Pickles13_42
- Track 20 : Warren_43
- Track 21 : MenE_44, Antuna_44
- Track 22 : Gingerbug_43
- Track 23 : Teng_45
- Track 24 : DelaGarza_44
- Track 25 : Lesiram_45
- Track 26 : Sweetums_46
- Track 27 : MooMoo_69

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

The start number called the most often in the published annotations is 10, it was called in 45 of the 46 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Antuna_44, Appa_43, Baddon_55, Baumdotcom_53, Bibwit_56, Bizzy_55, Blett_43, Bush_44, Carrillo_45, CookieDog_43, DelaGarza_44, Derg_50, Dropshot_43, Flatwoods_55, Gaea_56, Gingerbug_43, Gustavo_55, Guzman_43, JKSyngboy_53, Jakelyne_45, Kroos_55, Kwobi_57, Lesiram_45, LilHam_52, LordVader_79, Losacky_44, Mariel_44, MenE_44, MooMoo_69, NCRodriguez_45, Persistence_75, PhillyJawn_44, Phingu_46, Phonegingi_43, Pickles13_42, Ribeye_55, Saronaya_55, SchottB_53, ScoobySnack_40, Shukran_78, Stichling_52, StorminNorm_54, Sweetums_46, Tangerine_54, Teng_45, Tycho_54, Violeta_45, Warren_43, Winchester007_45, YorkOnyx_56,

Genes that have the "Most Annotated" start but do not call it:
• AbbyDaisy_84,

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

Summary by start number:

Start 10:
• Found in 51 of 51 (100.0%) of genes in pham
• Manual Annotations of this start: 45 of 46
• Called 98.0% of time when present
• Phage (with cluster) where this start called: Antuna_44 (GA), Appa_43 (GA), Baddon_55 (DE1), Baumdotcom_53 (DE1), Bibwit_56 (DE1), Bizzy_55 (DE1), Blett_43 (GA), Bush_44 (GA), Carrillo_45 (GA), CookieDog_43 (GA), DelaGarza_44 (GF), Derg_50 (DE1), Dropshot_43 (GA), Flatwoods_55 (DE1), Gaea_56 (DE1), Gingerbug_43 (GF), Gustavo_55 (DE1), Guzman_43 (GA), JKSyngboy_53 (DE1), Jakelyne_45 (GA), Kroos_55 (DE1), Kwobi_57 (DE1), Lesiram_45 (GF), LilHam_52 (DE1), LordVader_79 (F), Losacky_44 (GA), Mariel_44 (GA), MenE_44 (GA), MooMoo_69 (singleton), NCRodriguez_45 (GA), Persistence_75 (AY), PhillyJawn_44 (GA), Phingu_46 (GA), Phonegingi_43 (GA), Pickles13_42 (GA), Ribeye_55 (DE1), Saronaya_55 (DE1), SchottB_53 (DE1), ScoobySnack_40 (GA), Shukran_78 (AY), Stichling_52 (DE1), StorminNorm_54 (DE1), Sweetums_46 (GF), Tangerine_54 (DE1), Teng_45 (GF), Tycho_54 (DE1), Violeta_45 (GA), Warren_43 (GA), Winchester007_45 (GA), YorkOnyx_56 (DE1),

Start 11:
• Found in 1 of 51 (2.0%) of genes in pham
• Manual Annotations of this start: 1 of 46
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AbbyDaisy_84 (AY),

Summary by clusters:

There are 6 clusters represented in this pham: singleton, F, DE1, GF, GA, AY,

Info for manual annotations of cluster AY:
•Start number 10 was manually annotated 2 times for cluster AY.
•Start number 11 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster DE1:
•Start number 10 was manually annotated 19 times for cluster DE1.

Info for manual annotations of cluster F:
•Start number 10 was manually annotated 1 time for cluster F.

Info for manual annotations of cluster GA:
•Start number 10 was manually annotated 17 times for cluster GA.

Info for manual annotations of cluster GF:
•Start number 10 was manually annotated 5 times for cluster GF.

Gene Information:

Gene: AbbyDaisy_84 Start: 48452, Stop: 48808, Start Num: 11
Candidate Starts for AbbyDaisy_84:
(Start: 10 @48449 has 45 MA's), (Start: 11 @48452 has 1 MA's), (24, 48572), (29, 48617), (33, 48659), (39, 48725),

Gene: Antuna_44 Start: 26934, Stop: 27266, Start Num: 10
Candidate Starts for Antuna_44:
(Start: 10 @26934 has 45 MA's), (14, 26955), (20, 27036), (21, 27039),

Gene: Appa_43 Start: 26832, Stop: 27176, Start Num: 10
Candidate Starts for Appa_43:
(8, 26721), (Start: 10 @26832 has 45 MA's), (14, 26853), (21, 26937), (41, 27120), (43, 27141),

Gene: Baddon_55 Start: 46339, Stop: 46782, Start Num: 10
Candidate Starts for Baddon_55:
(5, 46159), (6, 46177), (Start: 10 @46339 has 45 MA's), (28, 46510), (29, 46513), (31, 46546), (41, 46642),

Gene: Baumdotcom_53 Start: 44887, Stop: 45330, Start Num: 10
Candidate Starts for Baumdotcom_53:
(Start: 10 @44887 has 45 MA's), (28, 45058), (29, 45061), (31, 45094), (41, 45190),

Gene: Bibwit_56 Start: 45240, Stop: 45683, Start Num: 10
Candidate Starts for Bibwit_56:
(5, 45057), (Start: 10 @45240 has 45 MA's), (28, 45411), (29, 45414), (31, 45447), (41, 45543),

Gene: Bizzy_55 Start: 45057, Stop: 45500, Start Num: 10
Candidate Starts for Bizzy_55:
(5, 44874), (6, 44892), (Start: 10 @45057 has 45 MA's), (28, 45228), (29, 45231), (31, 45264), (41, 45360),

Gene: Blett_43 Start: 27033, Stop: 27371, Start Num: 10
Candidate Starts for Blett_43:
(8, 26922), (Start: 10 @27033 has 45 MA's), (14, 27054), (20, 27135), (21, 27138), (41, 27321),

Gene: Bush_44 Start: 26981, Stop: 27319, Start Num: 10
Candidate Starts for Bush_44:
(8, 26870), (Start: 10 @26981 has 45 MA's), (14, 27002), (20, 27083), (21, 27086), (41, 27269),

Gene: Carrillo_45 Start: 26954, Stop: 27292, Start Num: 10

Candidate Starts for Carrillo_45:
(Start: 10 @26954 has 45 MA's), (14, 26975), (20, 27056), (21, 27059), (41, 27242),

Gene: CookieDog_43 Start: 26954, Stop: 27292, Start Num: 10
Candidate Starts for CookieDog_43:
(Start: 10 @26954 has 45 MA's), (14, 26975), (20, 27056), (21, 27059), (41, 27242),

Gene: DelaGarza_44 Start: 26877, Stop: 26524, Start Num: 10
Candidate Starts for DelaGarza_44:
(Start: 10 @26877 has 45 MA's), (13, 26859), (17, 26817), (19, 26784), (38, 26601), (42, 26571),

Gene: Derg_50 Start: 44649, Stop: 45092, Start Num: 10
Candidate Starts for Derg_50:
(5, 44466), (6, 44484), (Start: 10 @44649 has 45 MA's), (28, 44820), (29, 44823), (31, 44856), (41, 44952),

Gene: Dropshot_43 Start: 26667, Stop: 27011, Start Num: 10
Candidate Starts for Dropshot_43:
(8, 26556), (Start: 10 @26667 has 45 MA's), (14, 26688), (21, 26772), (41, 26955), (43, 26976),

Gene: Flatwoods_55 Start: 44995, Stop: 45438, Start Num: 10
Candidate Starts for Flatwoods_55:
(5, 44815), (6, 44833), (Start: 10 @44995 has 45 MA's), (28, 45166), (29, 45169), (31, 45202), (41, 45298),

Gene: Gaea_56 Start: 45026, Stop: 45469, Start Num: 10
Candidate Starts for Gaea_56:
(5, 44843), (6, 44861), (Start: 10 @45026 has 45 MA's), (28, 45197), (29, 45200), (31, 45233), (41, 45329),

Gene: Gingerbug_43 Start: 27395, Stop: 27042, Start Num: 10
Candidate Starts for Gingerbug_43:
(Start: 10 @27395 has 45 MA's), (12, 27380), (13, 27377), (17, 27335), (25, 27254), (42, 27089),

Gene: Gustavo_55 Start: 45277, Stop: 45720, Start Num: 10
Candidate Starts for Gustavo_55:
(5, 45097), (6, 45115), (Start: 10 @45277 has 45 MA's), (28, 45448), (29, 45451), (31, 45484), (41, 45580),

Gene: Guzman_43 Start: 26931, Stop: 27275, Start Num: 10
Candidate Starts for Guzman_43:
(Start: 10 @26931 has 45 MA's), (14, 26952), (21, 27036), (41, 27219), (43, 27240),

Gene: JKSyngboy_53 Start: 45870, Stop: 46313, Start Num: 10
Candidate Starts for JKSyngboy_53:
(5, 45690), (6, 45708), (Start: 10 @45870 has 45 MA's), (28, 46041), (29, 46044), (31, 46077), (34, 46089), (41, 46173),

Gene: Jakelyne_45 Start: 27042, Stop: 27386, Start Num: 10
Candidate Starts for Jakelyne_45:
(Start: 10 @27042 has 45 MA's), (14, 27063), (21, 27147), (41, 27330), (43, 27351),

Gene: Kroos_55 Start: 45557, Stop: 46000, Start Num: 10

Candidate Starts for Kroos_55:
(5, 45374), (6, 45392), (Start: 10 @45557 has 45 MA's), (28, 45728), (29, 45731), (31, 45764), (41, 45860),

Gene: Kwobi_57 Start: 45983, Stop: 46426, Start Num: 10
Candidate Starts for Kwobi_57:
(5, 45800), (6, 45818), (Start: 10 @45983 has 45 MA's), (28, 46154), (29, 46157), (31, 46190), (41, 46286),

Gene: Lesiram_45 Start: 26848, Stop: 26495, Start Num: 10
Candidate Starts for Lesiram_45:
(Start: 10 @26848 has 45 MA's), (13, 26830), (19, 26755), (41, 26545),

Gene: LilHam_52 Start: 44286, Stop: 44729, Start Num: 10
Candidate Starts for LilHam_52:
(Start: 10 @44286 has 45 MA's), (28, 44457), (29, 44460), (31, 44493), (41, 44589),

Gene: LordVader_79 Start: 47672, Stop: 48121, Start Num: 10
Candidate Starts for LordVader_79:
(1, 47183), (2, 47216), (3, 47384), (7, 47525), (Start: 10 @47672 has 45 MA's), (15, 47696), (27, 47834), (30, 47855), (32, 47879), (36, 47921), (40, 47960), (47, 48053), (48, 48056), (49, 48086),

Gene: Losacky_44 Start: 27052, Stop: 27396, Start Num: 10
Candidate Starts for Losacky_44:
(Start: 10 @27052 has 45 MA's), (14, 27073), (21, 27157), (41, 27340), (43, 27361),

Gene: Mariel_44 Start: 27425, Stop: 27757, Start Num: 10
Candidate Starts for Mariel_44:
(8, 27314), (Start: 10 @27425 has 45 MA's), (14, 27446), (20, 27527), (21, 27530),

Gene: MenE_44 Start: 26956, Stop: 27288, Start Num: 10
Candidate Starts for MenE_44:
(Start: 10 @26956 has 45 MA's), (14, 26977), (20, 27058), (21, 27061),

Gene: MooMoo_69 Start: 44993, Stop: 45469, Start Num: 10
Candidate Starts for MooMoo_69:
(Start: 10 @44993 has 45 MA's), (15, 45017), (16, 45029), (18, 45074), (23, 45116), (26, 45137), (27, 45155), (28, 45161), (30, 45176), (35, 45212), (37, 45257), (44, 45353), (45, 45359), (46, 45386), (50, 45434), (51, 45455),

Gene: NCRodriguez_45 Start: 27175, Stop: 27513, Start Num: 10
Candidate Starts for NCRodriguez_45:
(8, 27064), (Start: 10 @27175 has 45 MA's), (14, 27196), (20, 27277), (21, 27280), (41, 27463),

Gene: Persistence_75 Start: 44425, Stop: 44784, Start Num: 10
Candidate Starts for Persistence_75:
(9, 44362), (Start: 10 @44425 has 45 MA's), (23, 44542), (24, 44548), (29, 44593), (33, 44635), (39, 44701),

Gene: PhillyJawn_44 Start: 26829, Stop: 27173, Start Num: 10
Candidate Starts for PhillyJawn_44:
(8, 26718), (Start: 10 @26829 has 45 MA's), (14, 26850), (21, 26934), (41, 27117), (43, 27138),

Gene: Phingu_46 Start: 27066, Stop: 27404, Start Num: 10
Candidate Starts for Phingu_46:
(8, 26955), (Start: 10 @27066 has 45 MA's), (14, 27087), (20, 27168), (21, 27171), (41, 27354),

Gene: Phonegingi_43 Start: 26878, Stop: 27222, Start Num: 10
Candidate Starts for Phonegingi_43:
(4, 26605), (8, 26767), (Start: 10 @26878 has 45 MA's), (14, 26899), (21, 26983), (41, 27166), (43, 27187),

Gene: Pickles13_42 Start: 27142, Stop: 27486, Start Num: 10
Candidate Starts for Pickles13_42:
(Start: 10 @27142 has 45 MA's), (14, 27163), (21, 27247), (41, 27430), (43, 27451),

Gene: Ribeye_55 Start: 45981, Stop: 46424, Start Num: 10
Candidate Starts for Ribeye_55:
(5, 45798), (6, 45816), (Start: 10 @45981 has 45 MA's), (28, 46152), (29, 46155), (31, 46188), (41, 46284),

Gene: Saronaya_55 Start: 45277, Stop: 45720, Start Num: 10
Candidate Starts for Saronaya_55:
(5, 45097), (6, 45115), (Start: 10 @45277 has 45 MA's), (28, 45448), (29, 45451), (31, 45484), (41, 45580),

Gene: SchottB_53 Start: 45817, Stop: 46260, Start Num: 10
Candidate Starts for SchottB_53:
(5, 45634), (6, 45652), (Start: 10 @45817 has 45 MA's), (28, 45988), (29, 45991), (31, 46024), (41, 46120),

Gene: ScoobySnack_40 Start: 26668, Stop: 26985, Start Num: 10
Candidate Starts for ScoobySnack_40:
(8, 26557), (Start: 10 @26668 has 45 MA's), (14, 26689), (21, 26773),

Gene: Shukran_78 Start: 45292, Stop: 45648, Start Num: 10
Candidate Starts for Shukran_78:
(Start: 10 @45292 has 45 MA's), (22, 45397), (24, 45415), (29, 45460), (33, 45502), (39, 45568),

Gene: Stichling_52 Start: 44334, Stop: 44777, Start Num: 10
Candidate Starts for Stichling_52:
(5, 44154), (6, 44172), (Start: 10 @44334 has 45 MA's), (28, 44505), (29, 44508), (31, 44541), (34, 44553), (41, 44637),

Gene: StorminNorm_54 Start: 45026, Stop: 45469, Start Num: 10
Candidate Starts for StorminNorm_54:
(Start: 10 @45026 has 45 MA's), (28, 45197), (29, 45200), (31, 45233), (41, 45329),

Gene: Sweetums_46 Start: 26961, Stop: 26608, Start Num: 10
Candidate Starts for Sweetums_46:
(Start: 10 @26961 has 45 MA's), (13, 26943), (17, 26901), (19, 26868), (41, 26658),

Gene: Tangerine_54 Start: 44689, Stop: 45132, Start Num: 10
Candidate Starts for Tangerine_54:
(5, 44509), (6, 44527), (Start: 10 @44689 has 45 MA's), (28, 44860), (29, 44863), (31, 44896), (41, 44992),

Gene: Teng_45 Start: 26868, Stop: 26515, Start Num: 10
Candidate Starts for Teng_45:
(Start: 10 @26868 has 45 MA's), (13, 26850), (17, 26808), (19, 26775), (42, 26562),

Gene: Tycho_54 Start: 44894, Stop: 45337, Start Num: 10
Candidate Starts for Tycho_54:
(Start: 10 @44894 has 45 MA's), (28, 45065), (29, 45068), (31, 45101), (41, 45197),

Gene: Violeta_45 Start: 26945, Stop: 27283, Start Num: 10
Candidate Starts for Violeta_45:
(Start: 10 @26945 has 45 MA's), (14, 26966), (20, 27047), (21, 27050), (41, 27233),

Gene: Warren_43 Start: 26888, Stop: 27232, Start Num: 10
Candidate Starts for Warren_43:
(8, 26777), (Start: 10 @26888 has 45 MA's), (14, 26909), (20, 26990), (21, 26993), (41, 27176), (43, 27197),

Gene: Winchester007_45 Start: 26967, Stop: 27311, Start Num: 10
Candidate Starts for Winchester007_45:
(8, 26856), (Start: 10 @26967 has 45 MA's), (14, 26988), (21, 27072), (41, 27255), (43, 27276),

Gene: YorkOnyx_56 Start: 45472, Stop: 45915, Start Num: 10
Candidate Starts for YorkOnyx_56:
(5, 45289), (6, 45307), (Start: 10 @45472 has 45 MA's), (28, 45643), (29, 45646), (31, 45679), (41, 45775),