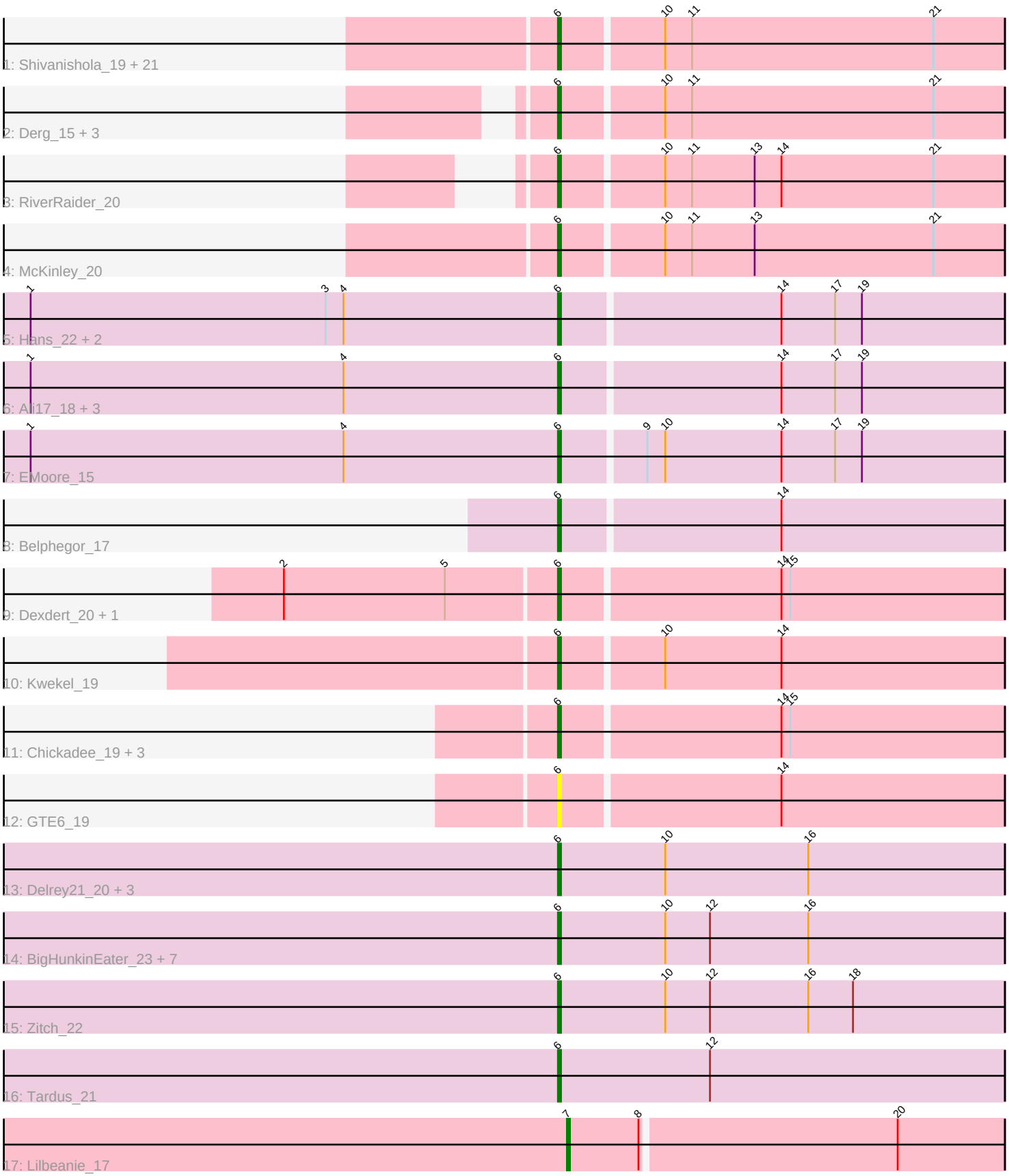
Pham 347646


1: Shivanishola_19 + 21
2: Derg_15 + 3
3: RiverRaider_20
4: McKinley_20
5: Hans_22 + 2
6: Ali17_18 + 3
7: EMoore_15
8: Belphegor_17
9: Dexdert_20 + 1
10: Kwekel_19
11: Chickadee_19 + 3
12: GTE6_19
13: Delrey21_20 + 3
14: BigHunkinEater_23 + 7
15: Zitch_22
16: Tardus_21
17: Lilbeanie_17

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 347646 Report

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

Pham number 347646 has 60 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Shivanishola_19, Tangerine_19, Ashertheman_20, Affeca_19, Angelicage_19, Saronaya_19, Baumdotcom_19, Kamashten_20, LilHam_17, Gaea_19, Flatwoods_20, StorminNorm_19, Ailee_19, Fitzgerald_17, Tycho_19, Bizzy_20, Gustavo_19, Thing3_20, Brandonk123_21, MoontowerMania_18, SchottB_18, ChadMasterC_19
• Track 2 : Derg_15, Baddon_19, Stichling_18, JKSyngboy_18
• Track 3 : RiverRaider_20
• Track 4 : McKinley_20
• Track 5 : Hans_22, MelBins_21, Phauci_13
• Track 6 : Ali17_18, Phinally_20, Inspectinfecti_21, Leonard_20
• Track 7 : EMoore_15
• Track 8 : Belphegor_17
• Track 9 : Dexdert_20, EdmundFerry_18
• Track 10 : Kwekel_19
• Track 11 : Chickadee_19, RoadKill_17, Tiamoceli_20, Twonlo_17
• Track 12 : GTE6_19
• Track 13 : Delrey21_20, Verity_20, DoctorFroggo_20, Zipp_20
• Track 14 : BigHunkinEater_23, Scioto_20, Sampson_20, ViaConlectus_21, APunk_22, Pumpkiney_22, Natkenzie_20, Abblin_20
• Track 15 : Zitch_22
• Track 16 : Tardus_21
• Track 17 : Lilbeanie_17

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

The start number called the most often in the published annotations is 6, it was called in 56 of the 57 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• APunk_22, Abblin_20, Affeca_19, Ailee_19, Ali17_18, Angelicage_19, Ashertheman_20, Baddon_19, Baumdotcom_19, Belphegor_17, BigHunkinEater_23, Bizzy_20, Brandonk123_21, ChadMasterC_19, Chickadee_19, Delrey21_20, Derg_15, Dexdert_20, DoctorFroggo_20, EMoore_15, EdmundFerry_18, Fitzgerald_17, Flatwoods_20, GTE6_19, Gaea_19, Gustavo_19, Hans_22,

Inspectinfecti_21, JKSyngboy_18, Kamashten_20, Kwekel_19, Leonard_20, LilHam_17, McKinley_20, MelBins_21, MoontowerMania_18, Natkenzie_20, Phauci_13, Phinally_20, Pumpkiney_22, RiverRaider_20, RoadKill_17, Sampson_20, Saronaya_19, SchottB_18, Scioto_20, Shivanishola_19, Stichling_18, StorminNorm_19, Tangerine_19, Tardus_21, Thing3_20, Tiamoceli_20, Twonlo_17, Tycho_19, Verity_20, ViaConlectus_21, Zipp_20, Zitch_22,

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

Genes that do not have the "Most Annotated" start:
• Lilbeanie_17,

Summary by start number:

Start 6:
• Found in 59 of 60 (98.3%) of genes in pham
• Manual Annotations of this start: 56 of 57
• Called 100.0% of time when present
• Phage (with cluster) where this start called: APunk_22 (DE4), Abblin_20 (DE4), Affeca_19 (DE1), Ailee_19 (DE1), Ali17_18 (DE2), Angelicage_19 (DE1), Ashertheman_20 (DE1), Baddon_19 (DE1), Baumdotcom_19 (DE1), Belphegor_17 (DE2), BigHunkinEater_23 (DE4), Bizzy_20 (DE1), Brandonk123_21 (DE1), ChadMasterC_19 (DE1), Chickadee_19 (DE3), Delrey21_20 (DE4), Derg_15 (DE1), Dexdert_20 (DE3), DoctorFroggo_20 (DE4), EMoore_15 (DE2), EdmundFerry_18 (DE3), Fitzgerald_17 (DE1), Flatwoods_20 (DE1), GTE6_19 (DE3), Gaea_19 (DE1), Gustavo_19 (DE1), Hans_22 (DE2), Inspectinfecti_21 (DE2), JKSyngboy_18 (DE1), Kamashten_20 (DE1), Kwekel_19 (DE3), Leonard_20 (DE2), LilHam_17 (DE1), McKinley_20 (DE1), MelBins_21 (DE2), MoontowerMania_18 (DE1), Natkenzie_20 (DE4), Phauci_13 (DE2), Phinally_20 (DE2), Pumpkiney_22 (DE4), RiverRaider_20 (DE1), RoadKill_17 (DE3), Sampson_20 (DE4), Saronaya_19 (DE1), SchottB_18 (DE1), Scioto_20 (DE4), Shivanishola_19 (DE1), Stichling_18 (DE1), StorminNorm_19 (DE1), Tangerine_19 (DE1), Tardus_21 (DE4), Thing3_20 (DE1), Tiamoceli_20 (DE3), Twonlo_17 (DE3), Tycho_19 (DE1), Verity_20 (DE4), ViaConlectus_21 (DE4), Zipp_20 (DE4), Zitch_22 (DE4),

Start 7:
• Found in 1 of 60 (1.7%) of genes in pham
• Manual Annotations of this start: 1 of 57
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Lilbeanie_17 (DE5),

Summary by clusters:

There are 5 clusters represented in this pham: DE1, DE2, DE3, DE4, DE5,

Info for manual annotations of cluster DE1:
•Start number 6 was manually annotated 27 times for cluster DE1.

Info for manual annotations of cluster DE2:
•Start number 6 was manually annotated 9 times for cluster DE2.

Info for manual annotations of cluster DE3:

•Start number 6 was manually annotated 7 times for cluster DE3.

Info for manual annotations of cluster DE4:
•Start number 6 was manually annotated 13 times for cluster DE4.

Info for manual annotations of cluster DE5:
•Start number 7 was manually annotated 1 time for cluster DE5.

Gene Information:

Gene: APunk_22 Start: 16064, Stop: 16213, Start Num: 6
Candidate Starts for APunk_22:
(Start: 6 @16064 has 56 MA's), (10, 16100), (12, 16115), (16, 16148),

Gene: Abblin_20 Start: 15277, Stop: 15426, Start Num: 6
Candidate Starts for Abblin_20:
(Start: 6 @15277 has 56 MA's), (10, 15313), (12, 15328), (16, 15361),

Gene: Affeca_19 Start: 15092, Stop: 15238, Start Num: 6
Candidate Starts for Affeca_19:
(Start: 6 @15092 has 56 MA's), (10, 15125), (11, 15134), (21, 15215),

Gene: Ailee_19 Start: 15000, Stop: 15146, Start Num: 6
Candidate Starts for Ailee_19:
(Start: 6 @15000 has 56 MA's), (10, 15033), (11, 15042), (21, 15123),

Gene: Ali17_18 Start: 14404, Stop: 14550, Start Num: 6
Candidate Starts for Ali17_18:
(1, 14227), (4, 14332), (Start: 6 @14404 has 56 MA's), (14, 14476), (17, 14494), (19, 14503),

Gene: Angelicage_19 Start: 15515, Stop: 15661, Start Num: 6
Candidate Starts for Angelicage_19:
(Start: 6 @15515 has 56 MA's), (10, 15548), (11, 15557), (21, 15638),

Gene: Ashertheman_20 Start: 14598, Stop: 14744, Start Num: 6
Candidate Starts for Ashertheman_20:
(Start: 6 @14598 has 56 MA's), (10, 14631), (11, 14640), (21, 14721),

Gene: Baddon_19 Start: 15445, Stop: 15591, Start Num: 6
Candidate Starts for Baddon_19:
(Start: 6 @15445 has 56 MA's), (10, 15478), (11, 15487), (21, 15568),

Gene: Baumdotcom_19 Start: 14214, Stop: 14360, Start Num: 6
Candidate Starts for Baumdotcom_19:
(Start: 6 @14214 has 56 MA's), (10, 14247), (11, 14256), (21, 14337),

Gene: Belphegor_17 Start: 13509, Stop: 13655, Start Num: 6
Candidate Starts for Belphegor_17:
(Start: 6 @13509 has 56 MA's), (14, 13581),

Gene: BigHunkinEater_23 Start: 14389, Stop: 14538, Start Num: 6

Candidate Starts for BigHunkinEater_23:
(Start: 6 @14389 has 56 MA's), (10, 14425), (12, 14440), (16, 14473),

Gene: Bizzy_20 Start: 14493, Stop: 14639, Start Num: 6
Candidate Starts for Bizzy_20:
(Start: 6 @14493 has 56 MA's), (10, 14526), (11, 14535), (21, 14616),

Gene: Brandonk123_21 Start: 14574, Stop: 14720, Start Num: 6
Candidate Starts for Brandonk123_21:
(Start: 6 @14574 has 56 MA's), (10, 14607), (11, 14616), (21, 14697),

Gene: ChadMasterC_19 Start: 14992, Stop: 15138, Start Num: 6
Candidate Starts for ChadMasterC_19:
(Start: 6 @14992 has 56 MA's), (10, 15025), (11, 15034), (21, 15115),

Gene: Chickadee_19 Start: 13493, Stop: 13639, Start Num: 6
Candidate Starts for Chickadee_19:
(Start: 6 @13493 has 56 MA's), (14, 13565), (15, 13568),

Gene: Delrey21_20 Start: 14740, Stop: 14889, Start Num: 6
Candidate Starts for Delrey21_20:
(Start: 6 @14740 has 56 MA's), (10, 14776), (16, 14824),

Gene: Derg_15 Start: 14088, Stop: 14234, Start Num: 6
Candidate Starts for Derg_15:
(Start: 6 @14088 has 56 MA's), (10, 14121), (11, 14130), (21, 14211),

Gene: Dexdert_20 Start: 13940, Stop: 14086, Start Num: 6
Candidate Starts for Dexdert_20:
(2, 13850), (5, 13904), (Start: 6 @13940 has 56 MA's), (14, 14012), (15, 14015),

Gene: DoctorFroggo_20 Start: 14740, Stop: 14889, Start Num: 6
Candidate Starts for DoctorFroggo_20:
(Start: 6 @14740 has 56 MA's), (10, 14776), (16, 14824),

Gene: EMoore_15 Start: 12766, Stop: 12912, Start Num: 6
Candidate Starts for EMoore_15:
(1, 12589), (4, 12694), (Start: 6 @12766 has 56 MA's), (9, 12793), (10, 12799), (14, 12838), (17, 12856), (19, 12865),

Gene: EdmundFerry_18 Start: 13524, Stop: 13670, Start Num: 6
Candidate Starts for EdmundFerry_18:
(2, 13434), (5, 13488), (Start: 6 @13524 has 56 MA's), (14, 13596), (15, 13599),

Gene: Fitzgerald_17 Start: 14310, Stop: 14456, Start Num: 6
Candidate Starts for Fitzgerald_17:
(Start: 6 @14310 has 56 MA's), (10, 14343), (11, 14352), (21, 14433),

Gene: Flatwoods_20 Start: 14500, Stop: 14646, Start Num: 6
Candidate Starts for Flatwoods_20:
(Start: 6 @14500 has 56 MA's), (10, 14533), (11, 14542), (21, 14623),

Gene: GTE6_19 Start: 14009, Stop: 14155, Start Num: 6

Candidate Starts for GTE6_19:
(Start: 6 @14009 has 56 MA's), (14, 14081),

Gene: Gaea_19 Start: 14194, Stop: 14340, Start Num: 6
Candidate Starts for Gaea_19:
(Start: 6 @14194 has 56 MA's), (10, 14227), (11, 14236), (21, 14317),

Gene: Gustavo_19 Start: 14305, Stop: 14451, Start Num: 6
Candidate Starts for Gustavo_19:
(Start: 6 @14305 has 56 MA's), (10, 14338), (11, 14347), (21, 14428),

Gene: Hans_22 Start: 15065, Stop: 15211, Start Num: 6
Candidate Starts for Hans_22:
(1, 14888), (3, 14987), (4, 14993), (Start: 6 @15065 has 56 MA's), (14, 15137), (17, 15155), (19, 15164),

Gene: Inspectinfecti_21 Start: 15487, Stop: 15633, Start Num: 6
Candidate Starts for Inspectinfecti_21:
(1, 15310), (4, 15415), (Start: 6 @15487 has 56 MA's), (14, 15559), (17, 15577), (19, 15586),

Gene: JKSyngboy_18 Start: 14964, Stop: 15110, Start Num: 6
Candidate Starts for JKSyngboy_18:
(Start: 6 @14964 has 56 MA's), (10, 14997), (11, 15006), (21, 15087),

Gene: Kamashten_20 Start: 15427, Stop: 15573, Start Num: 6
Candidate Starts for Kamashten_20:
(Start: 6 @15427 has 56 MA's), (10, 15460), (11, 15469), (21, 15550),

Gene: Kwekel_19 Start: 13460, Stop: 13606, Start Num: 6
Candidate Starts for Kwekel_19:
(Start: 6 @13460 has 56 MA's), (10, 13493), (14, 13532),

Gene: Leonard_20 Start: 15082, Stop: 15228, Start Num: 6
Candidate Starts for Leonard_20:
(1, 14905), (4, 15010), (Start: 6 @15082 has 56 MA's), (14, 15154), (17, 15172), (19, 15181),

Gene: LilHam_17 Start: 13612, Stop: 13758, Start Num: 6
Candidate Starts for LilHam_17:
(Start: 6 @13612 has 56 MA's), (10, 13645), (11, 13654), (21, 13735),

Gene: Lilbeanie_17 Start: 10420, Stop: 10563, Start Num: 7
Candidate Starts for Lilbeanie_17:
(Start: 7 @10420 has 1 MA's), (8, 10444), (20, 10528),

Gene: McKinley_20 Start: 14965, Stop: 15111, Start Num: 6
Candidate Starts for McKinley_20:
(Start: 6 @14965 has 56 MA's), (10, 14998), (11, 15007), (13, 15028), (21, 15088),

Gene: MelBins_21 Start: 15286, Stop: 15432, Start Num: 6
Candidate Starts for MelBins_21:
(1, 15109), (3, 15208), (4, 15214), (Start: 6 @15286 has 56 MA's), (14, 15358), (17, 15376), (19, 15385),

Gene: MoontowerMania_18 Start: 13949, Stop: 14095, Start Num: 6
Candidate Starts for MoontowerMania_18:
(Start: 6 @13949 has 56 MA's), (10, 13982), (11, 13991), (21, 14072),

Gene: Natkenzie_20 Start: 15277, Stop: 15426, Start Num: 6
Candidate Starts for Natkenzie_20:
(Start: 6 @15277 has 56 MA's), (10, 15313), (12, 15328), (16, 15361),

Gene: Phauci_13 Start: 11649, Stop: 11795, Start Num: 6
Candidate Starts for Phauci_13:
(1, 11472), (3, 11571), (4, 11577), (Start: 6 @11649 has 56 MA's), (14, 11721), (17, 11739), (19, 11748),

Gene: Phinally_20 Start: 15079, Stop: 15225, Start Num: 6
Candidate Starts for Phinally_20:
(1, 14902), (4, 15007), (Start: 6 @15079 has 56 MA's), (14, 15151), (17, 15169), (19, 15178),

Gene: Pumpkiney_22 Start: 13990, Stop: 14139, Start Num: 6
Candidate Starts for Pumpkiney_22:
(Start: 6 @13990 has 56 MA's), (10, 14026), (12, 14041), (16, 14074),

Gene: RiverRaider_20 Start: 13915, Stop: 14061, Start Num: 6
Candidate Starts for RiverRaider_20:
(Start: 6 @13915 has 56 MA's), (10, 13948), (11, 13957), (13, 13978), (14, 13987), (21, 14038),

Gene: RoadKill_17 Start: 12997, Stop: 13143, Start Num: 6
Candidate Starts for RoadKill_17:
(Start: 6 @12997 has 56 MA's), (14, 13069), (15, 13072),

Gene: Sampson_20 Start: 15222, Stop: 15371, Start Num: 6
Candidate Starts for Sampson_20:
(Start: 6 @15222 has 56 MA's), (10, 15258), (12, 15273), (16, 15306),

Gene: Saronaya_19 Start: 14305, Stop: 14451, Start Num: 6
Candidate Starts for Saronaya_19:
(Start: 6 @14305 has 56 MA's), (10, 14338), (11, 14347), (21, 14428),

Gene: SchottB_18 Start: 15294, Stop: 15440, Start Num: 6
Candidate Starts for SchottB_18:
(Start: 6 @15294 has 56 MA's), (10, 15327), (11, 15336), (21, 15417),

Gene: Scioto_20 Start: 15277, Stop: 15426, Start Num: 6
Candidate Starts for Scioto_20:
(Start: 6 @15277 has 56 MA's), (10, 15313), (12, 15328), (16, 15361),

Gene: Shivanishola_19 Start: 14688, Stop: 14834, Start Num: 6
Candidate Starts for Shivanishola_19:
(Start: 6 @14688 has 56 MA's), (10, 14721), (11, 14730), (21, 14811),

Gene: Stichling_18 Start: 13858, Stop: 14004, Start Num: 6
Candidate Starts for Stichling_18:
(Start: 6 @13858 has 56 MA's), (10, 13891), (11, 13900), (21, 13981),

Gene: StorminNorm_19 Start: 14185, Stop: 14331, Start Num: 6
Candidate Starts for StorminNorm_19:
(Start: 6 @14185 has 56 MA's), (10, 14218), (11, 14227), (21, 14308),

Gene: Tangerine_19 Start: 14191, Stop: 14337, Start Num: 6
Candidate Starts for Tangerine_19:
(Start: 6 @14191 has 56 MA's), (10, 14224), (11, 14233), (21, 14314),

Gene: Tardus_21 Start: 14557, Stop: 14706, Start Num: 6
Candidate Starts for Tardus_21:
(Start: 6 @14557 has 56 MA's), (12, 14608),

Gene: Thing3_20 Start: 15427, Stop: 15573, Start Num: 6
Candidate Starts for Thing3_20:
(Start: 6 @15427 has 56 MA's), (10, 15460), (11, 15469), (21, 15550),

Gene: Tiamoceli_20 Start: 14350, Stop: 14496, Start Num: 6
Candidate Starts for Tiamoceli_20:
(Start: 6 @14350 has 56 MA's), (14, 14422), (15, 14425),

Gene: Twonlo_17 Start: 12967, Stop: 13113, Start Num: 6
Candidate Starts for Twonlo_17:
(Start: 6 @12967 has 56 MA's), (14, 13039), (15, 13042),

Gene: Tycho_19 Start: 14308, Stop: 14454, Start Num: 6
Candidate Starts for Tycho_19:
(Start: 6 @14308 has 56 MA's), (10, 14341), (11, 14350), (21, 14431),

Gene: Verity_20 Start: 14740, Stop: 14889, Start Num: 6
Candidate Starts for Verity_20:
(Start: 6 @14740 has 56 MA's), (10, 14776), (16, 14824),

Gene: ViaConlectus_21 Start: 15292, Stop: 15441, Start Num: 6
Candidate Starts for ViaConlectus_21:
(Start: 6 @15292 has 56 MA's), (10, 15328), (12, 15343), (16, 15376),

Gene: Zipp_20 Start: 15389, Stop: 15538, Start Num: 6
Candidate Starts for Zipp_20:
(Start: 6 @15389 has 56 MA's), (10, 15425), (16, 15473),

Gene: Zitch_22 Start: 14519, Stop: 14668, Start Num: 6
Candidate Starts for Zitch_22:
(Start: 6 @14519 has 56 MA's), (10, 14555), (12, 14570), (16, 14603), (18, 14618),