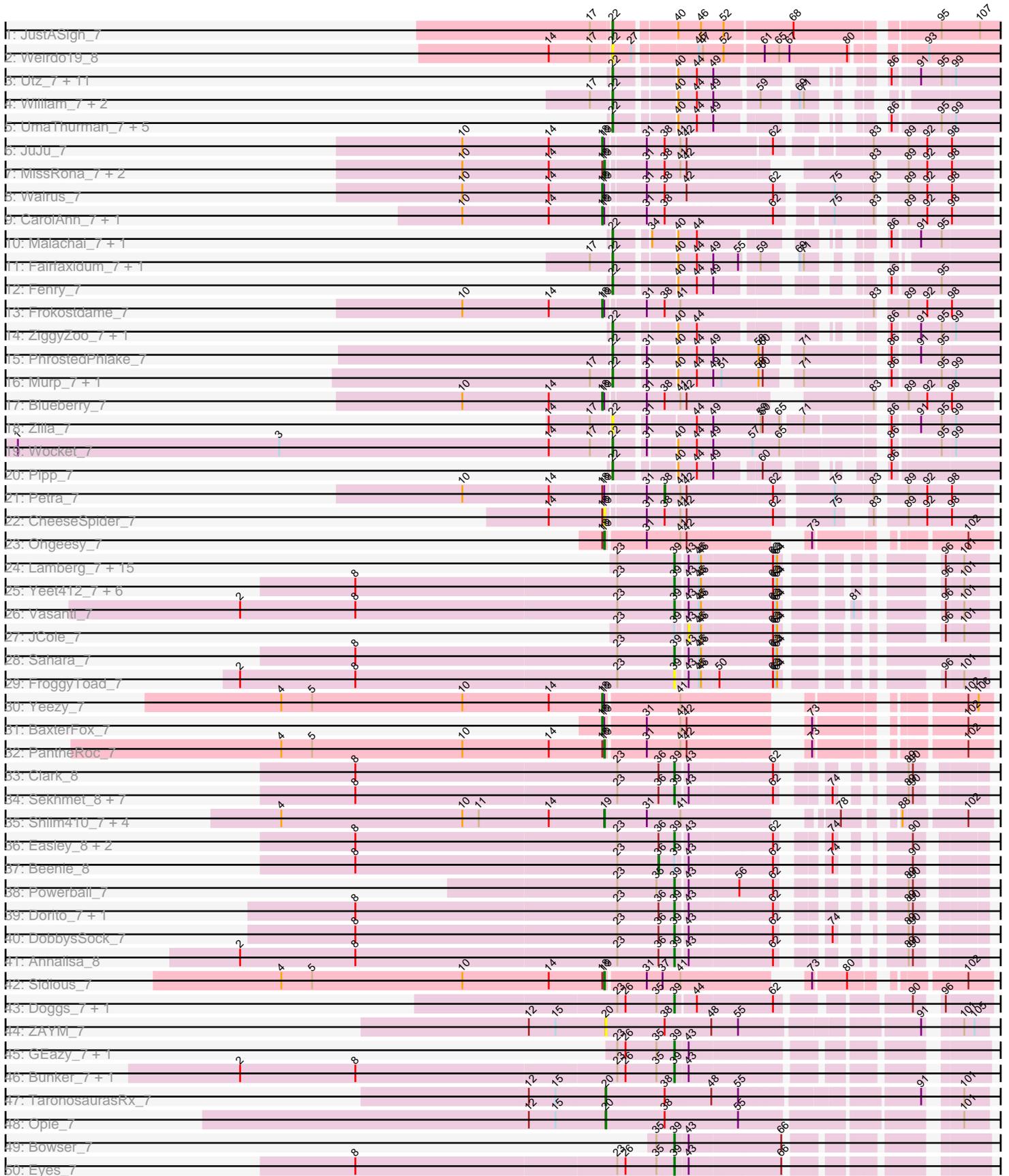


Pham 290825



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 290825 Report

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

Pham number 290825 has 228 members, 23 are drafts.

Phages represented in each track:

- Track 1 : JustASigh_7
- Track 2 : Weirido19_8
- Track 3 : Utz_7, Delian_7, Zarbodnamra_7, MintFen_7, Guacamole_7, CaptainKirk2_7, Lysidious_7, Melba_7, Barco_7, Wisp_7, BlingBling_7, JasperJr_7
- Track 4 : William_7, PCoral7_7, Toast_7
- Track 5 : UmaThurman_7, Jalammah_7, Archis_7, Mellie_7, Samba_7, Hitter_7
- Track 6 : JuJu_7
- Track 7 : MissRona_7, Azula_7, Gambino_7
- Track 8 : Walrus_7
- Track 9 : CarolAnn_7, Blino_7
- Track 10 : Malachai_7, Begonia_7
- Track 11 : Fairfaxidum_7, PrincePatrick_7
- Track 12 : Fenry_7
- Track 13 : Frokostdame_7
- Track 14 : ZiggyZoo_7, Obliviate_7
- Track 15 : PhrostedPhlake_7
- Track 16 : Murp_7, KappaFarmDelta_7
- Track 17 : Blueberry_7
- Track 18 : Zilla_7
- Track 19 : Wocket_7
- Track 20 : Pipp_7
- Track 21 : Petra_7
- Track 22 : CheeseSpider_7
- Track 23 : Ohgeesy_7
- Track 24 : Lamberg_7, TuertoX_7, Jalleen_7, Cynthia_7, Clap_7, GemG_7, Denise_7, Mocha12_7, Gizermo_7, Nettuno_7, Ebert_7, Savage_7, Sproutie_7, Haley23_7, EdnaMode_7, Whiteclaw_7
- Track 25 : Yeet412_7, Attis_7, SoilAssassin_7, Matteo_7, Bjanes7_7, Pickett_7, LordFarquaad_7
- Track 26 : Vasanti_7
- Track 27 : JCole_7
- Track 28 : Sahara_7
- Track 29 : FroggyToad_7
- Track 30 : Yeezy_7
- Track 31 : BaxterFox_7
- Track 32 : PantheRoc_7
- Track 33 : Clark_8

- Track 34 : Sekhmet_8, Oregano_8, Suerte_7, Dolores_8, Samman98_8, Invecetra_8, WinkNick_8, Thimann_8
- Track 35 : Shlim410_7, Adora_7, Hortense_7, Howe_7, Twinkle_7
- Track 36 : Easley_8, Tuti_9, MichaelScott_8
- Track 37 : Beenie_8
- Track 38 : Powerball_7
- Track 39 : Dorito_7, PhriskyACE_7
- Track 40 : DobbysSock_7
- Track 41 : Annalisa_8
- Track 42 : Sidious_7
- Track 43 : Doggs_7, Coriander_8
- Track 44 : ZAYM_7
- Track 45 : GEazy_7, HannahD_7
- Track 46 : Bunker_7, BBQValindra_7
- Track 47 : TaronosaurusRx_7
- Track 48 : Opie_7
- Track 49 : Bowser_7
- Track 50 : Eyes_7
- Track 51 : Hedwig_8, DirtyBoi_8
- Track 52 : MagicMan_7, Schnabeltier_7
- Track 53 : RayTheFireFly_8
- Track 54 : Dmitri_8
- Track 55 : Kiko_8
- Track 56 : Moonflower_8
- Track 57 : BackstagePass_7
- Track 58 : Bock_11, Mulch_11, WheatThin_11, Nadeem_11, BetterKatz_11, Brylie_11, Parada_11, NancyRae_11
- Track 59 : Chop_11, Ayotoya_11, GrandSlam_11, Hamood_11
- Track 60 : Francois_11
- Track 61 : Pimento_11
- Track 62 : DelRio_11
- Track 63 : Ruthy_7
- Track 64 : DumpsterDude_7, ArchiDore_7
- Track 65 : Zodiariah_7, MakCheese_7
- Track 66 : Malibo_7
- Track 67 : Sprinklemunch_7
- Track 68 : Langerak_7, Mangethe_7, Majeke_7, BronnyJr_7, Donovan_7, GaloreK_7, Jebeks_7, Sonah_7, Arib1_7, Phegasus_7, Juniormint_7, Techage_7
- Track 69 : StevieRay_7, Glaske_7, Thespis_7, Venti_7, Dynamo_7, Brusacoram_7, Etoile_7, Malithi_7, Bunnies_7, Atcoo_7, Camster_7, Chubbello_7, Megiddo_7, FirstPlacePfu_7, Polkaroo_7, Pygmy_7, KilKor_7, HUHilltop_7, Necropolis_7, StressBall_7, Xavia_7, Bhagsy_7, Shipwreck_7, Bartholomew_7, Bogie_7, CactusJack_7, Zilizebeth_7, PeanutPie_7, Jung_7, Willsammy_7, Fishburne_7, Phalm_7, Kari_7, Gavriela_7, Ksquared_7, Vidya_7, GreaseLightnin_7
- Track 70 : Phineas_7
- Track 71 : Tortellini_7
- Track 72 : BigNuz_7, Nazo_7
- Track 73 : ThulaThula_7, Phayonce_7
- Track 74 : Purky_7
- Track 75 : Kinbote_10, BloominB_10, HH92_10, Ein37_10, OBUpride_10, Daegal_11, Amochick_10, Luna22_10, Ubuntu_10, Evanesce_10, DeepSoil15_10, Gancho_9, Dewey_10, Amymech_10, Gravaillia_10, Forge_10, Webster2_10, Giles_10, Wishmaker_10, Luke_10, Hail_10, LilHazelNut_10, Hadrien_10

- Track 76 : NovoPizza_8
- Track 77 : Mbo4_7
- Track 78 : Whack_7
- Track 79 : REQ2_07
- Track 80 : Finkle_7

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

The start number called the most often in the published annotations is 39, it was called in 53 of the 205 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Annalisa_8, Attis_7, BBQValindra_7, BackstagePass_7, Bjaner7_7, Bowser_7, Bunker_7, Clap_7, Clark_8, Coriander_8, Cynthia_7, Denise_7, DirtyBoi_8, Dmitri_8, DobbysSock_7, Doggs_7, Dolores_8, Dorito_7, Easley_8, Ebert_7, EdnaMode_7, Eyes_7, Finkle_7, FroggyToad_7, GEazy_7, GemG_7, Gizermo_7, Haley23_7, HannahD_7, Hedwig_8, Invectra_8, Jalleen_7, Kiko_8, Lamberg_7, LordFarquaad_7, Matteo_7, MichaelScott_8, Mocha12_7, Moonflower_8, Nettuno_7, Oregano_8, PhriskyACE_7, Pickett_7, Powerball_7, RayTheFireFly_8, Sahara_7, Samman98_8, Savage_7, Sekhmet_8, SoilAssassin_7, Sproutie_7, Suerte_7, Thimann_8, TuertoX_7, Tuti_9, Vasanti_7, Whiteclaw_7, WinkNick_8, Yeet412_7,

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

- Ayotoya_11, Beenie_8, BetterKatz_11, Bock_11, Brylie_11, Chop_11, DelRio_11, Francois_11, GrandSlam_11, Hamood_11, JCole_7, Mulch_11, Nadeem_11, NancyRae_11, Parada_11, Pimento_11, WheatThin_11,

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

- Adora_7, Amochick_10, Amymech_10, ArchiDore_7, Archis_7, Arib1_7, Atcoo_7, Azula_7, Barco_7, Bartholomew_7, BaxterFox_7, Begonia_7, Bhagsy_7, BigNuz_7, BlingBling_7, Blino_7, BloominB_10, Blueberry_7, Bogie_7, BronnyJr_7, Brusacoram_7, Bunnies_7, CactusJack_7, Camster_7, CaptainKirk2_7, CarolAnn_7, CheeseSpider_7, Chubbello_7, Daegal_11, DeepSoil15_10, Delian_7, Dewey_10, Donovan_7, DumpsterDude_7, Dynamo_7, Ein37_10, Etoile_7, Evanesce_10, Fairfaxidum_7, Fenry_7, FirstPlacePfu_7, Fishburne_7, Forge_10, Frokostdame_7, GaloreK_7, Gambino_7, Gancho_9, Gavriela_7, Giles_10, Glaske_7, Gravaillia_10, GreaseLightnin_7, Guacamole_7, HH92_10, HUHilltop_7, Hadrien_10, Hail_10, Hitter_7, Hortense_7, Howe_7, Jalammah_7, JasperJr_7, Jebeks_7, JuJu_7, Jung_7, Juniormint_7, JustASigh_7, KappaFarmDelta_7, Kari_7, KilKor_7, Kinbote_10, Ksquared_7, Langerak_7, LilHazelnut_10, Luke_10, Luna22_10, Lysidious_7, MagicMan_7, Majeke_7, MakCheese_7, Malachai_7, Malibo_7, Malithi_7, Mangethe_7, Mbo4_7, Megidido_7, Melba_7, Mellie_7, MintFen_7, MissRona_7, Murp_7, Nazo_7, Necropolis_7, NovoPizza_8, OBUpride_10, Obliviate_7, Ohgeesy_7, Opie_7, PCoral7_7, PantheRoc_7, PeanutPie_7, Petra_7, Phalm_7, Phayonce_7, Phegasus_7, Phineas_7, PhrostedPhlake_7, Pipp_7, Polkaroo_7, PrincePatrick_7, Purky_7, Pygmy_7, REQ2_07, Ruthy_7, Samba_7, Schnabeltier_7, Shipwreck_7, Shlim410_7, Sidious_7, Sonah_7, Sprinklemunch_7, StevieRay_7, StressBall_7, TaronosaurusRx_7, Techage_7, Thespis_7, ThulaThula_7, Toast_7, Tortellini_7, Twinkle_7, Ubuntu_10, UmaThurman_7, Utz_7, Venti_7, Vidya_7, Walrus_7, Webster2_10, Weirdo19_8, Whack_7, William_7, Willsammy_7,

Wishmaker_10, Wisp_7, Wocket_7, Xavia_7, Yeezy_7, ZAYM_7, Zarbodnamra_7, ZiggyZoo_7, Zilizebeth_7, Zilla_7, Zodiariah_7,

Summary by start number:

Start 18:

- Found in 17 of 228 (7.5%) of genes in pham
- Manual Annotations of this start: 9 of 205
- Called 52.9% of time when present
- Phage (with cluster) where this start called: BaxterFox_7 (CZ3), Blino_7 (CV), Blueberry_7 (CV), CarolAnn_7 (CV), Frokostdame_7 (CV), JuJu_7 (CV), Walrus_7 (CV), Whack_7 (singleton), Yeezy_7 (CZ3),

Start 19:

- Found in 22 of 228 (9.6%) of genes in pham
- Manual Annotations of this start: 11 of 205
- Called 54.5% of time when present
- Phage (with cluster) where this start called: Adora_7 (CZ4), Azula_7 (CV), CheeseSpider_7 (CV), Gambino_7 (CV), Hortense_7 (CZ4), Howe_7 (CZ4), MissRona_7 (CV), Ohgeesy_7 (CZ), PantheRoc_7 (CZ3), Shlim410_7 (CZ4), Sidious_7 (CZ7), Twinkle_7 (CZ4),

Start 20:

- Found in 6 of 228 (2.6%) of genes in pham
- Manual Annotations of this start: 4 of 205
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MagicMan_7 (DB), Mbo4_7 (singleton), Opie_7 (DB), Schnabeltier_7 (DB), TaronosaurusRx_7 (DB), ZAYM_7 (DB),

Start 21:

- Found in 24 of 228 (10.5%) of genes in pham
- Manual Annotations of this start: 23 of 205
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amochick_10 (Q), Amymech_10 (Q), BloominB_10 (Q), Daegal_11 (Q), DeepSoil15_10 (Q), Dewey_10 (Q), Ein37_10 (Q), Evanesce_10 (Q), Forge_10 (Q), Gancho_9 (Q), Giles_10 (Q), Gravallia_10 (Q), HH92_10 (Q), Hadrien_10 (Q), Hail_10 (Q), Kinbote_10 (Q), LilHazelNut_10 (Q), Luke_10 (Q), Luna22_10 (Q), NovoPizza_8 (Q), OBUpride_10 (Q), Ubuntu_10 (Q), Webster2_10 (Q), Wishmaker_10 (Q),

Start 22:

- Found in 60 of 228 (26.3%) of genes in pham
- Manual Annotations of this start: 53 of 205
- Called 98.3% of time when present
- Phage (with cluster) where this start called: ArchiDore_7 (DW), Archis_7 (CV), Ayotoya_11 (DI), Barco_7 (CV), Begonia_7 (CV), BetterKatz_11 (DI), BlingBling_7 (CV), Bock_11 (DI), Brylie_11 (DI), CaptainKirk2_7 (CV), Chop_11 (DI), DelRio_11 (DI), Delian_7 (CV), DumpsterDude_7 (DW), Fairfaxidum_7 (CV), Fenry_7 (CV), Francois_11 (DI), GrandSlam_11 (DI), Guacamole_7 (CV), Hamood_11 (DI), Hitter_7 (CV), Jalammah_7 (CV), JasperJr_7 (CV), JustASigh_7 (AH), KappaFarmDelta_7 (CV), Lysidious_7 (CV), MakCheese_7 (DW), Malachai_7 (CV), Malibo_7 (DW), Melba_7 (CV), Mellie_7 (CV), MintFen_7 (CV), Mulch_11 (DI), Murp_7 (CV), Nadeem_11 (DI), NancyRae_11 (DI), Obliviate_7 (CV), PCoral7_7 (CV), Parada_11

(DI), PhrostedPhlake_7 (CV), Pimento_11 (DI), Pipp_7 (CV), PrincePatrick_7 (CV), REQ2_07 (singleton), Ruthy_7 (DW), Samba_7 (CV), Sprinklemunch_7 (DW), Toast_7 (CV), UmaThurman_7 (CV), Utz_7 (CV), Weirdo19_8 (AH), WheatThin_11 (DI), William_7 (CV), Wisp_7 (CV), Wocket_7 (CV), Zarbodnamra_7 (CV), ZiggyZoo_7 (CV), Zilla_7 (CV), Zodiariah_7 (DW),

Start 35:

- Found in 68 of 228 (29.8%) of genes in pham
- Manual Annotations of this start: 1 of 205
- Called 1.5% of time when present
- Phage (with cluster) where this start called: Phineas_7 (P1),

Start 36:

- Found in 73 of 228 (32.0%) of genes in pham
- Manual Annotations of this start: 1 of 205
- Called 1.4% of time when present
- Phage (with cluster) where this start called: Beenie_8 (CZ4),

Start 38:

- Found in 16 of 228 (7.0%) of genes in pham
- Manual Annotations of this start: 1 of 205
- Called 6.2% of time when present
- Phage (with cluster) where this start called: Petra_7 (CV),

Start 39:

- Found in 76 of 228 (33.3%) of genes in pham
- Manual Annotations of this start: 53 of 205
- Called 77.6% of time when present
- Phage (with cluster) where this start called: Annalisa_8 (CZ4), Attis_7 (CZ2), BBQValindra_7 (DB), BackstagePass_7 (DB), Bjaner7_7 (CZ2), Bowser_7 (DB), Bunker_7 (DB), Clap_7 (CZ2), Clark_8 (CZ4), Coriander_8 (DB), Cynthia_7 (CZ2), Denise_7 (CZ5), DirtyBoi_8 (DB), Dmitri_8 (DB), DobbysSock_7 (CZ4), Doggs_7 (DB), Dolores_8 (CZ4), Dorito_7 (CZ4), Easley_8 (CZ4), Ebert_7 (CZ2), EdnaMode_7 (CZ2), Eyes_7 (DB), Finkle_7 (singleton), FroggyToad_7 (CZ2), GEazy_7 (DB), GemG_7 (CZ2), Gizermo_7 (CZ2), Haley23_7 (CZ2), HannahD_7 (DB), Hedwig_8 (DB), Invectra_8 (CZ4), Jalleen_7 (CZ2), Kiko_8 (DB), Lamberg_7 (CZ2), LordFarquaad_7 (CZ2), Matteo_7 (CZ2), MichaelScott_8 (CZ4), Mocha12_7 (CZ2), Moonflower_8 (DB), Nettuno_7 (CZ2), Oregano_8 (CZ4), PhriskyACE_7 (CZ4), Pickett_7 (CZ2), Powerball_7 (CZ4), RayTheFireFly_8 (DB), Sahara_7 (CZ2), Samman98_8 (CZ4), Savage_7 (CZ2), Sekhmet_8 (CZ4), SoilAssassin_7 (CZ2), Sproutie_7 (CZ2), Suerte_7 (CZ4), Thimann_8 (CZ4), TuertoX_7 (CZ2), Tuti_9 (CZ4), Vasanti_7 (CZ2), Whiteclaw_7 (CZ2), WinkNick_8 (CZ4), Yeet412_7 (CZ2),

Start 40:

- Found in 90 of 228 (39.5%) of genes in pham
- Manual Annotations of this start: 49 of 205
- Called 61.1% of time when present
- Phage (with cluster) where this start called: Arib1_7 (P1), Atcoo_7 (P1), Bartholomew_7 (P1), Bhagsy_7 (P1), BigNuz_7 (P4), Bogie_7 (P1), BronnyJr_7 (P1), Brusacoram_7 (P1), Bunnies_7 (P1), CactusJack_7 (P1), Camster_7 (P1), Chubbello_7 (P1), Donovan_7 (P1), Dynamo_7 (P1), Etoile_7 (P1), FirstPlacePfu_7 (P1), Fishburne_7 (P1), GaloreK_7 (P1), Gavriela_7 (P1), Glaske_7 (P1), GreaseLightnin_7 (P1), HUHilltop_7 (P1), Jebeks_7 (P1), Jung_7 (P1), Juniormint_7

(P1), Kari_7 (P1), KilKor_7 (P1), Ksquared_7 (P1), Langerak_7 (P1), Majeke_7 (P1), Malithi_7 (P1), Mangethe_7 (P1), Megiddo_7 (P1), Nazo_7 (P4), Necropolis_7 (P1), PeanutPie_7 (P1), Phalm_7 (P1), Phayonce_7 (P5), Phegasus_7 (P1), Polkaroo_7 (P1), Purky_7 (P6), Pygmy_7 (P1), Shipwreck_7 (P1), Sonah_7 (P1), StevieRay_7 (P1), StressBall_7 (P1), Techage_7 (P1), Thespis_7 (P1), ThulaThula_7 (P5), Tortellini_7 (P2), Venti_7 (P1), Vidya_7 (P1), Willsammy_7 (P1), Xavia_7 (P3), Zilizebeth_7 (P1),

Start 43:

- Found in 59 of 228 (25.9%) of genes in pham
- No Manual Annotations of this start.
- Called 1.7% of time when present
- Phage (with cluster) where this start called: JCole_7 (CZ2),

Summary by clusters:

There are 19 clusters represented in this pham: P2, P3, singleton, P1, P6, P4, DI, CZ2, CZ3, P5, DB, CZ7, CZ4, CZ5, Q, CZ, AH, DW, CV,

Info for manual annotations of cluster AH:

- Start number 22 was manually annotated 1 time for cluster AH.

Info for manual annotations of cluster CV:

- Start number 18 was manually annotated 6 times for cluster CV.
- Start number 19 was manually annotated 3 times for cluster CV.
- Start number 22 was manually annotated 32 times for cluster CV.
- Start number 38 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster CZ:

- Start number 19 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ2:

- Start number 39 was manually annotated 23 times for cluster CZ2.

Info for manual annotations of cluster CZ3:

- Start number 18 was manually annotated 2 times for cluster CZ3.
- Start number 19 was manually annotated 1 time for cluster CZ3.

Info for manual annotations of cluster CZ4:

- Start number 19 was manually annotated 5 times for cluster CZ4.
- Start number 36 was manually annotated 1 time for cluster CZ4.
- Start number 39 was manually annotated 15 times for cluster CZ4.

Info for manual annotations of cluster CZ5:

- Start number 39 was manually annotated 1 time for cluster CZ5.

Info for manual annotations of cluster CZ7:

- Start number 19 was manually annotated 1 time for cluster CZ7.

Info for manual annotations of cluster DB:

- Start number 20 was manually annotated 4 times for cluster DB.
- Start number 39 was manually annotated 13 times for cluster DB.

Info for manual annotations of cluster DI:

- Start number 22 was manually annotated 15 times for cluster DI.

Info for manual annotations of cluster DW:

- Start number 22 was manually annotated 5 times for cluster DW.

Info for manual annotations of cluster P1:

- Start number 35 was manually annotated 1 time for cluster P1.
- Start number 40 was manually annotated 42 times for cluster P1.

Info for manual annotations of cluster P2:

- Start number 40 was manually annotated 1 time for cluster P2.

Info for manual annotations of cluster P3:

- Start number 40 was manually annotated 1 time for cluster P3.

Info for manual annotations of cluster P4:

- Start number 40 was manually annotated 2 times for cluster P4.

Info for manual annotations of cluster P5:

- Start number 40 was manually annotated 2 times for cluster P5.

Info for manual annotations of cluster P6:

- Start number 40 was manually annotated 1 time for cluster P6.

Info for manual annotations of cluster Q:

- Start number 21 was manually annotated 23 times for cluster Q.

Gene Information:

Gene: Adora_7 Start: 5836, Stop: 6276, Start Num: 19

Candidate Starts for Adora_7:

(4, 5365), (10, 5629), (11, 5653), (14, 5755), (Start: 19 @5836 has 11 MA's), (31, 5896), (41, 5941), (78, 6106), (88, 6157), (102, 6241),

Gene: Amochick_10 Start: 7533, Stop: 7973, Start Num: 21

Candidate Starts for Amochick_10:

(9, 7266), (17, 7509), (Start: 21 @7533 has 23 MA's), (47, 7629), (71, 7758), (76, 7806), (77, 7809), (79, 7818), (91, 7899), (103, 7965),

Gene: Amymech_10 Start: 7539, Stop: 7979, Start Num: 21

Candidate Starts for Amymech_10:

(9, 7272), (17, 7515), (Start: 21 @7539 has 23 MA's), (47, 7635), (71, 7764), (76, 7812), (77, 7815), (79, 7824), (91, 7905), (103, 7971),

Gene: Annalisa_8 Start: 6265, Stop: 6591, Start Num: 39

Candidate Starts for Annalisa_8:

(2, 5638), (8, 5806), (23, 6184), (Start: 36 @6244 has 1 MA's), (Start: 39 @6265 has 53 MA's), (43, 6277), (62, 6394), (89, 6502), (90, 6508),

Gene: ArchiDore_7 Start: 6345, Stop: 6746, Start Num: 22

Candidate Starts for ArchiDore_7:

(14, 6261), (17, 6321), (Start: 22 @6345 has 53 MA's), (51, 6480), (53, 6495), (54, 6498), (98, 6702),

Gene: Archis_7 Start: 6142, Stop: 6570, Start Num: 22

Candidate Starts for Archis_7:

(Start: 22 @6142 has 53 MA's), (Start: 40 @6217 has 49 MA's), (44, 6244), (49, 6268), (86, 6418), (95, 6481), (99, 6499),

Gene: Arib1_7 Start: 6243, Stop: 6590, Start Num: 40

Candidate Starts for Arib1_7:

(6, 5760), (13, 6045), (Start: 35 @6216 has 1 MA's), (Start: 36 @6219 has 1 MA's), (Start: 40 @6243 has 49 MA's), (62, 6372),

Gene: Atcoo_7 Start: 6226, Stop: 6576, Start Num: 40

Candidate Starts for Atcoo_7:

(Start: 35 @6199 has 1 MA's), (Start: 36 @6202 has 1 MA's), (Start: 40 @6226 has 49 MA's), (62, 6355),

Gene: Attis_7 Start: 5774, Stop: 6121, Start Num: 39

Candidate Starts for Attis_7:

(8, 5315), (23, 5693), (Start: 39 @5774 has 53 MA's), (43, 5786), (45, 5801), (46, 5804), (62, 5903), (63, 5906), (64, 5909), (96, 6062), (101, 6086),

Gene: Ayotoya_11 Start: 8058, Stop: 8519, Start Num: 22

Candidate Starts for Ayotoya_11:

(14, 7974), (Start: 22 @8058 has 53 MA's), (25, 8073), (29, 8097), (30, 8100), (Start: 39 @8148 has 53 MA's), (47, 8190), (54, 8235), (55, 8241), (98, 8475), (100, 8490), (104, 8502),

Gene: Azula_7 Start: 5970, Stop: 6446, Start Num: 19

Candidate Starts for Azula_7:

(10, 5763), (14, 5889), (Start: 18 @5967 has 9 MA's), (Start: 19 @5970 has 11 MA's), (31, 6021), (Start: 38 @6045 has 1 MA's), (41, 6066), (42, 6075), (83, 6291), (89, 6324), (92, 6351), (98, 6387),

Gene: BBQValindra_7 Start: 6114, Stop: 6488, Start Num: 39

Candidate Starts for BBQValindra_7:

(2, 5490), (8, 5658), (23, 6033), (26, 6045), (Start: 35 @6090 has 1 MA's), (Start: 39 @6114 has 53 MA's), (43, 6129),

Gene: BackstagePass_7 Start: 6091, Stop: 6465, Start Num: 39

Candidate Starts for BackstagePass_7:

(Start: 35 @6067 has 1 MA's), (Start: 39 @6091 has 53 MA's), (43, 6106),

Gene: Barco_7 Start: 6142, Stop: 6570, Start Num: 22

Candidate Starts for Barco_7:

(Start: 22 @6142 has 53 MA's), (Start: 40 @6217 has 49 MA's), (44, 6244), (49, 6268), (86, 6418), (91, 6451), (95, 6481), (99, 6499),

Gene: Bartholomew_7 Start: 6238, Stop: 6588, Start Num: 40

Candidate Starts for Bartholomew_7:

(Start: 35 @6211 has 1 MA's), (Start: 36 @6214 has 1 MA's), (Start: 40 @6238 has 49 MA's), (62, 6367),

Gene: BaxterFox_7 Start: 5821, Stop: 6270, Start Num: 18

Candidate Starts for BaxterFox_7:

(Start: 18 @5821 has 9 MA's), (Start: 19 @5824 has 11 MA's), (31, 5875), (41, 5920), (42, 5929), (73, 6058), (102, 6235),

Gene: Beenie_8 Start: 6244, Stop: 6585, Start Num: 36

Candidate Starts for Beenie_8:

(8, 5806), (23, 6184), (Start: 36 @6244 has 1 MA's), (Start: 39 @6265 has 53 MA's), (43, 6277), (62, 6394), (74, 6442), (90, 6502),

Gene: Begonia_7 Start: 6145, Stop: 6573, Start Num: 22

Candidate Starts for Begonia_7:

(Start: 22 @6145 has 53 MA's), (34, 6187), (Start: 40 @6220 has 49 MA's), (44, 6247), (86, 6421), (91, 6454), (95, 6484),

Gene: BetterKatz_11 Start: 8026, Stop: 8487, Start Num: 22

Candidate Starts for BetterKatz_11:

(14, 7942), (Start: 22 @8026 has 53 MA's), (25, 8041), (29, 8065), (30, 8068), (33, 8080), (Start: 39 @8116 has 53 MA's), (47, 8158), (54, 8203), (55, 8209), (98, 8443), (100, 8458), (104, 8470),

Gene: Bhagsy_7 Start: 6229, Stop: 6579, Start Num: 40

Candidate Starts for Bhagsy_7:

(Start: 35 @6202 has 1 MA's), (Start: 36 @6205 has 1 MA's), (Start: 40 @6229 has 49 MA's), (62, 6358),

Gene: BigNuz_7 Start: 6216, Stop: 6557, Start Num: 40

Candidate Starts for BigNuz_7:

(13, 6018), (Start: 35 @6189 has 1 MA's), (Start: 36 @6192 has 1 MA's), (Start: 40 @6216 has 49 MA's), (62, 6345),

Gene: Bjaner7_7 Start: 5774, Stop: 6121, Start Num: 39

Candidate Starts for Bjaner7_7:

(8, 5315), (23, 5693), (Start: 39 @5774 has 53 MA's), (43, 5786), (45, 5801), (46, 5804), (62, 5903), (63, 5906), (64, 5909), (96, 6062), (101, 6086),

Gene: BlingBling_7 Start: 6142, Stop: 6570, Start Num: 22

Candidate Starts for BlingBling_7:

(Start: 22 @6142 has 53 MA's), (Start: 40 @6217 has 49 MA's), (44, 6244), (49, 6268), (86, 6418), (91, 6451), (95, 6481), (99, 6499),

Gene: Blino_7 Start: 5970, Stop: 6470, Start Num: 18

Candidate Starts for Blino_7:

(10, 5766), (14, 5892), (Start: 18 @5970 has 9 MA's), (Start: 19 @5973 has 11 MA's), (31, 6024), (Start: 38 @6048 has 1 MA's), (62, 6201), (75, 6264), (83, 6318), (89, 6348), (92, 6375), (98, 6411),

Gene: BloominB_10 Start: 7539, Stop: 7979, Start Num: 21

Candidate Starts for BloominB_10:

(9, 7272), (17, 7515), (Start: 21 @7539 has 23 MA's), (47, 7635), (71, 7764), (76, 7812), (77, 7815), (79, 7824), (91, 7905), (103, 7971),

Gene: Blueberry_7 Start: 5967, Stop: 6446, Start Num: 18

Candidate Starts for Blueberry_7:

(10, 5763), (14, 5889), (Start: 18 @5967 has 9 MA's), (Start: 19 @5970 has 11 MA's), (31, 6021), (Start: 38 @6045 has 1 MA's), (41, 6066), (42, 6075), (83, 6291), (89, 6324), (92, 6351), (98, 6387),

Gene: Bock_11 Start: 7776, Stop: 8237, Start Num: 22

Candidate Starts for Bock_11:

(14, 7692), (Start: 22 @7776 has 53 MA's), (25, 7791), (29, 7815), (30, 7818), (33, 7830), (Start: 39 @7866 has 53 MA's), (47, 7908), (54, 7953), (55, 7959), (98, 8193), (100, 8208), (104, 8220),

Gene: Bogie_7 Start: 6226, Stop: 6576, Start Num: 40

Candidate Starts for Bogie_7:

(Start: 35 @6199 has 1 MA's), (Start: 36 @6202 has 1 MA's), (Start: 40 @6226 has 49 MA's), (62, 6355),

Gene: Bowser_7 Start: 6112, Stop: 6486, Start Num: 39

Candidate Starts for Bowser_7:

(Start: 35 @6088 has 1 MA's), (Start: 39 @6112 has 53 MA's), (43, 6127), (66, 6256),

Gene: BronnyJr_7 Start: 6246, Stop: 6593, Start Num: 40

Candidate Starts for BronnyJr_7:

(6, 5763), (13, 6048), (Start: 35 @6219 has 1 MA's), (Start: 36 @6222 has 1 MA's), (Start: 40 @6246 has 49 MA's), (62, 6375),

Gene: Brusacoram_7 Start: 6225, Stop: 6575, Start Num: 40

Candidate Starts for Brusacoram_7:

(Start: 35 @6198 has 1 MA's), (Start: 36 @6201 has 1 MA's), (Start: 40 @6225 has 49 MA's), (62, 6354),

Gene: Brylie_11 Start: 7773, Stop: 8234, Start Num: 22

Candidate Starts for Brylie_11:

(14, 7689), (Start: 22 @7773 has 53 MA's), (25, 7788), (29, 7812), (30, 7815), (33, 7827), (Start: 39 @7863 has 53 MA's), (47, 7905), (54, 7950), (55, 7956), (98, 8190), (100, 8205), (104, 8217),

Gene: Bunker_7 Start: 6114, Stop: 6488, Start Num: 39

Candidate Starts for Bunker_7:

(2, 5490), (8, 5658), (23, 6033), (26, 6045), (Start: 35 @6090 has 1 MA's), (Start: 39 @6114 has 53 MA's), (43, 6129),

Gene: Bunnies_7 Start: 6238, Stop: 6588, Start Num: 40

Candidate Starts for Bunnies_7:

(Start: 35 @6211 has 1 MA's), (Start: 36 @6214 has 1 MA's), (Start: 40 @6238 has 49 MA's), (62, 6367),

Gene: CactusJack_7 Start: 6225, Stop: 6575, Start Num: 40

Candidate Starts for CactusJack_7:

(Start: 35 @6198 has 1 MA's), (Start: 36 @6201 has 1 MA's), (Start: 40 @6225 has 49 MA's), (62, 6354),

Gene: Camster_7 Start: 6238, Stop: 6588, Start Num: 40

Candidate Starts for Camster_7:

(Start: 35 @6211 has 1 MA's), (Start: 36 @6214 has 1 MA's), (Start: 40 @6238 has 49 MA's), (62, 6367),

Gene: CaptainKirk2_7 Start: 6142, Stop: 6570, Start Num: 22

Candidate Starts for CaptainKirk2_7:

(Start: 22 @6142 has 53 MA's), (Start: 40 @6217 has 49 MA's), (44, 6244), (49, 6268), (86, 6418), (91, 6451), (95, 6481), (99, 6499),

Gene: CarolAnn_7 Start: 5969, Stop: 6469, Start Num: 18

Candidate Starts for CarolAnn_7:

(10, 5765), (14, 5891), (Start: 18 @5969 has 9 MA's), (Start: 19 @5972 has 11 MA's), (31, 6023), (Start: 38 @6047 has 1 MA's), (62, 6200), (75, 6263), (83, 6317), (89, 6347), (92, 6374), (98, 6410),

Gene: CheeseSpider_7 Start: 5970, Stop: 6446, Start Num: 19

Candidate Starts for CheeseSpider_7:

(14, 5889), (Start: 18 @5967 has 9 MA's), (Start: 19 @5970 has 11 MA's), (31, 6021), (Start: 38 @6045 has 1 MA's), (41, 6066), (42, 6075), (62, 6198), (75, 6270), (83, 6291), (89, 6324), (92, 6351), (98, 6387),

Gene: Chop_11 Start: 7806, Stop: 8267, Start Num: 22

Candidate Starts for Chop_11:

(14, 7722), (Start: 22 @7806 has 53 MA's), (25, 7821), (29, 7845), (30, 7848), (Start: 39 @7896 has 53 MA's), (47, 7938), (54, 7983), (55, 7989), (98, 8223), (100, 8238), (104, 8250),

Gene: Chubbello_7 Start: 6237, Stop: 6587, Start Num: 40

Candidate Starts for Chubbello_7:

(Start: 35 @6210 has 1 MA's), (Start: 36 @6213 has 1 MA's), (Start: 40 @6237 has 49 MA's), (62, 6366),

Gene: Clap_7 Start: 5774, Stop: 6121, Start Num: 39

Candidate Starts for Clap_7:

(23, 5693), (Start: 39 @5774 has 53 MA's), (43, 5786), (45, 5801), (46, 5804), (62, 5903), (63, 5906), (64, 5909), (96, 6062), (101, 6086),

Gene: Clark_8 Start: 6265, Stop: 6591, Start Num: 39

Candidate Starts for Clark_8:

(8, 5806), (23, 6184), (Start: 36 @6244 has 1 MA's), (Start: 39 @6265 has 53 MA's), (43, 6277), (62, 6394), (89, 6502), (90, 6508),

Gene: Coriander_8 Start: 6499, Stop: 6873, Start Num: 39

Candidate Starts for Coriander_8:

(23, 6418), (26, 6430), (Start: 35 @6475 has 1 MA's), (Start: 39 @6499 has 53 MA's), (44, 6523), (62, 6628), (90, 6784), (96, 6808),

Gene: Cynthia_7 Start: 5774, Stop: 6121, Start Num: 39

Candidate Starts for Cynthia_7:

(23, 5693), (Start: 39 @5774 has 53 MA's), (43, 5786), (45, 5801), (46, 5804), (62, 5903), (63, 5906), (64, 5909), (96, 6062), (101, 6086),

Gene: Daegal_11 Start: 7830, Stop: 8270, Start Num: 21

Candidate Starts for Daegal_11:

(9, 7563), (17, 7806), (Start: 21 @7830 has 23 MA's), (47, 7926), (71, 8055), (76, 8103), (77, 8106), (79, 8115), (91, 8196), (103, 8262),

Gene: DeepSoil15_10 Start: 7539, Stop: 7979, Start Num: 21

Candidate Starts for DeepSoil15_10:

(9, 7272), (17, 7515), (Start: 21 @7539 has 23 MA's), (47, 7635), (71, 7764), (76, 7812), (77, 7815), (79, 7824), (91, 7905), (103, 7971),

Gene: DelRio_11 Start: 8070, Stop: 8531, Start Num: 22

Candidate Starts for DelRio_11:

(14, 7986), (Start: 22 @8070 has 53 MA's), (25, 8085), (29, 8109), (30, 8112), (33, 8124), (Start: 39 @8160 has 53 MA's), (47, 8202), (55, 8253), (98, 8487), (100, 8502),

Gene: Delian_7 Start: 6142, Stop: 6570, Start Num: 22

Candidate Starts for Delian_7:

(Start: 22 @6142 has 53 MA's), (Start: 40 @6217 has 49 MA's), (44, 6244), (49, 6268), (86, 6418), (91, 6451), (95, 6481), (99, 6499),

Gene: Denise_7 Start: 5783, Stop: 6130, Start Num: 39

Candidate Starts for Denise_7:

(23, 5702), (Start: 39 @5783 has 53 MA's), (43, 5795), (45, 5810), (46, 5813), (62, 5912), (63, 5915), (64, 5918), (96, 6071), (101, 6095),

Gene: Dewey_10 Start: 7539, Stop: 7979, Start Num: 21

Candidate Starts for Dewey_10:

(9, 7272), (17, 7515), (Start: 21 @7539 has 23 MA's), (47, 7635), (71, 7764), (76, 7812), (77, 7815), (79, 7824), (91, 7905), (103, 7971),

Gene: DirtyBoi_8 Start: 6478, Stop: 6846, Start Num: 39

Candidate Starts for DirtyBoi_8:

(2, 5854), (8, 6022), (Start: 35 @6454 has 1 MA's), (Start: 39 @6478 has 53 MA's), (43, 6490), (85, 6724), (90, 6757), (96, 6781),

Gene: Dmitri_8 Start: 6478, Stop: 6855, Start Num: 39

Candidate Starts for Dmitri_8:

(2, 5854), (8, 6022), (Start: 35 @6454 has 1 MA's), (Start: 39 @6478 has 53 MA's), (43, 6490), (63, 6610), (85, 6733), (90, 6766), (96, 6790),

Gene: DobbysSock_7 Start: 5763, Stop: 6083, Start Num: 39

Candidate Starts for DobbysSock_7:

(8, 5304), (23, 5682), (Start: 36 @5742 has 1 MA's), (Start: 39 @5763 has 53 MA's), (43, 5775), (62, 5892), (74, 5940), (89, 5994), (90, 6000),

Gene: Doggs_7 Start: 6196, Stop: 6570, Start Num: 39

Candidate Starts for Doggs_7:

(23, 6115), (26, 6127), (Start: 35 @6172 has 1 MA's), (Start: 39 @6196 has 53 MA's), (44, 6220), (62, 6325), (90, 6481), (96, 6505),

Gene: Dolores_8 Start: 6265, Stop: 6585, Start Num: 39

Candidate Starts for Dolores_8:

(8, 5806), (23, 6184), (Start: 36 @6244 has 1 MA's), (Start: 39 @6265 has 53 MA's), (43, 6277), (62, 6394), (74, 6442), (89, 6496), (90, 6502),

Gene: Donovan_7 Start: 6243, Stop: 6590, Start Num: 40

Candidate Starts for Donovan_7:

(6, 5760), (13, 6045), (Start: 35 @6216 has 1 MA's), (Start: 36 @6219 has 1 MA's), (Start: 40 @6243 has 49 MA's), (62, 6372),

Gene: Dorito_7 Start: 5763, Stop: 6089, Start Num: 39

Candidate Starts for Dorito_7:

(8, 5304), (23, 5682), (Start: 36 @5742 has 1 MA's), (Start: 39 @5763 has 53 MA's), (43, 5775), (62, 5892), (89, 6000), (90, 6006),

Gene: DumpsterDude_7 Start: 6346, Stop: 6756, Start Num: 22

Candidate Starts for DumpsterDude_7:

(14, 6262), (17, 6322), (Start: 22 @6346 has 53 MA's), (51, 6481), (53, 6496), (54, 6499), (98, 6712),

Gene: Dynamo_7 Start: 6238, Stop: 6588, Start Num: 40

Candidate Starts for Dynamo_7:

(Start: 35 @6211 has 1 MA's), (Start: 36 @6214 has 1 MA's), (Start: 40 @6238 has 49 MA's), (62, 6367),

Gene: Easley_8 Start: 6265, Stop: 6585, Start Num: 39

Candidate Starts for Easley_8:

(8, 5806), (23, 6184), (Start: 36 @6244 has 1 MA's), (Start: 39 @6265 has 53 MA's), (43, 6277), (62, 6394), (74, 6442), (90, 6502),

Gene: Ebert_7 Start: 5774, Stop: 6121, Start Num: 39

Candidate Starts for Ebert_7:

(23, 5693), (Start: 39 @5774 has 53 MA's), (43, 5786), (45, 5801), (46, 5804), (62, 5903), (63, 5906), (64, 5909), (96, 6062), (101, 6086),

Gene: EdnaMode_7 Start: 5774, Stop: 6121, Start Num: 39

Candidate Starts for EdnaMode_7:

(23, 5693), (Start: 39 @5774 has 53 MA's), (43, 5786), (45, 5801), (46, 5804), (62, 5903), (63, 5906), (64, 5909), (96, 6062), (101, 6086),

Gene: Ein37_10 Start: 7539, Stop: 7979, Start Num: 21

Candidate Starts for Ein37_10:

(9, 7272), (17, 7515), (Start: 21 @7539 has 23 MA's), (47, 7635), (71, 7764), (76, 7812), (77, 7815), (79, 7824), (91, 7905), (103, 7971),

Gene: Etoile_7 Start: 6238, Stop: 6588, Start Num: 40

Candidate Starts for Etoile_7:

(Start: 35 @6211 has 1 MA's), (Start: 36 @6214 has 1 MA's), (Start: 40 @6238 has 49 MA's), (62, 6367),

Gene: Evanesce_10 Start: 7539, Stop: 7979, Start Num: 21

Candidate Starts for Evanesce_10:

(9, 7272), (17, 7515), (Start: 21 @7539 has 23 MA's), (47, 7635), (71, 7764), (76, 7812), (77, 7815), (79, 7824), (91, 7905), (103, 7971),

Gene: Eyes_7 Start: 6121, Stop: 6495, Start Num: 39

Candidate Starts for Eyes_7:

(8, 5665), (23, 6040), (26, 6052), (Start: 35 @6097 has 1 MA's), (Start: 39 @6121 has 53 MA's), (43, 6136), (66, 6265),

Gene: Fairfaxidum_7 Start: 6141, Stop: 6554, Start Num: 22

Candidate Starts for Fairfaxidum_7:

(17, 6114), (Start: 22 @6141 has 53 MA's), (Start: 40 @6216 has 49 MA's), (44, 6243), (49, 6267), (55, 6303), (59, 6327), (69, 6354), (71, 6357),

Gene: Fenry_7 Start: 6145, Stop: 6579, Start Num: 22

Candidate Starts for Fenry_7:

(Start: 22 @6145 has 53 MA's), (Start: 40 @6220 has 49 MA's), (44, 6247), (49, 6271), (86, 6427), (95, 6490),

Gene: Finkle_7 Start: 5910, Stop: 6254, Start Num: 39

Candidate Starts for Finkle_7:

(Start: 39 @5910 has 53 MA's), (45, 5937), (62, 6036),

Gene: FirstPlacePfu_7 Start: 6238, Stop: 6588, Start Num: 40

Candidate Starts for FirstPlacePfu_7:

(Start: 35 @6211 has 1 MA's), (Start: 36 @6214 has 1 MA's), (Start: 40 @6238 has 49 MA's), (62, 6367),

Gene: Fishburne_7 Start: 6238, Stop: 6588, Start Num: 40

Candidate Starts for Fishburne_7:

(Start: 35 @6211 has 1 MA's), (Start: 36 @6214 has 1 MA's), (Start: 40 @6238 has 49 MA's), (62, 6367),

Gene: Forge_10 Start: 7539, Stop: 7979, Start Num: 21

Candidate Starts for Forge_10:

(9, 7272), (17, 7515), (Start: 21 @7539 has 23 MA's), (47, 7635), (71, 7764), (76, 7812), (77, 7815), (79, 7824), (91, 7905), (103, 7971),

Gene: Francois_11 Start: 7775, Stop: 8248, Start Num: 22

Candidate Starts for Francois_11:

(14, 7691), (17, 7751), (Start: 22 @7775 has 53 MA's), (25, 7790), (29, 7814), (30, 7817), (33, 7829), (Start: 39 @7865 has 53 MA's), (47, 7907), (55, 7958), (87, 8135), (98, 8204), (104, 8231),

Gene: FroggyToad_7 Start: 5775, Stop: 6122, Start Num: 39

Candidate Starts for FroggyToad_7:

(2, 5148), (8, 5316), (23, 5694), (Start: 39 @5775 has 53 MA's), (43, 5787), (45, 5802), (46, 5805), (50, 5829), (62, 5904), (63, 5907), (64, 5910), (96, 6063), (101, 6087),

Gene: Frokostdame_7 Start: 6038, Stop: 6565, Start Num: 18

Candidate Starts for Frokostdame_7:

(10, 5834), (14, 5960), (Start: 18 @6038 has 9 MA's), (Start: 19 @6041 has 11 MA's), (31, 6092), (Start: 38 @6116 has 1 MA's), (41, 6137), (83, 6410), (89, 6443), (92, 6470), (98, 6506),

Gene: GEazy_7 Start: 6123, Stop: 6497, Start Num: 39

Candidate Starts for GEazy_7:

(23, 6042), (26, 6054), (Start: 35 @6099 has 1 MA's), (Start: 39 @6123 has 53 MA's), (43, 6138),

Gene: GaloreK_7 Start: 6244, Stop: 6591, Start Num: 40

Candidate Starts for GaloreK_7:

(6, 5761), (13, 6046), (Start: 35 @6217 has 1 MA's), (Start: 36 @6220 has 1 MA's), (Start: 40 @6244 has 49 MA's), (62, 6373),

Gene: Gambino_7 Start: 5970, Stop: 6446, Start Num: 19

Candidate Starts for Gambino_7:

(10, 5763), (14, 5889), (Start: 18 @5967 has 9 MA's), (Start: 19 @5970 has 11 MA's), (31, 6021), (Start: 38 @6045 has 1 MA's), (41, 6066), (42, 6075), (83, 6291), (89, 6324), (92, 6351), (98, 6387),

Gene: Gancho_9 Start: 7239, Stop: 7679, Start Num: 21

Candidate Starts for Gancho_9:

(9, 6972), (17, 7215), (Start: 21 @7239 has 23 MA's), (47, 7335), (71, 7464), (76, 7512), (77, 7515), (79, 7524), (91, 7605), (103, 7671),

Gene: Gavriela_7 Start: 6225, Stop: 6575, Start Num: 40

Candidate Starts for Gavriela_7:

(Start: 35 @6198 has 1 MA's), (Start: 36 @6201 has 1 MA's), (Start: 40 @6225 has 49 MA's), (62, 6354),

Gene: GemG_7 Start: 5774, Stop: 6121, Start Num: 39

Candidate Starts for GemG_7:

(23, 5693), (Start: 39 @5774 has 53 MA's), (43, 5786), (45, 5801), (46, 5804), (62, 5903), (63, 5906), (64, 5909), (96, 6062), (101, 6086),

Gene: Giles_10 Start: 7539, Stop: 7979, Start Num: 21

Candidate Starts for Giles_10:

(9, 7272), (17, 7515), (Start: 21 @7539 has 23 MA's), (47, 7635), (71, 7764), (76, 7812), (77, 7815), (79, 7824), (91, 7905), (103, 7971),

Gene: Gizermo_7 Start: 5774, Stop: 6121, Start Num: 39

Candidate Starts for Gizermo_7:

(23, 5693), (Start: 39 @5774 has 53 MA's), (43, 5786), (45, 5801), (46, 5804), (62, 5903), (63, 5906), (64, 5909), (96, 6062), (101, 6086),

Gene: Glaske_7 Start: 6225, Stop: 6575, Start Num: 40

Candidate Starts for Glaske_7:

(Start: 35 @6198 has 1 MA's), (Start: 36 @6201 has 1 MA's), (Start: 40 @6225 has 49 MA's), (62, 6354),

Gene: GrandSlam_11 Start: 7806, Stop: 8267, Start Num: 22

Candidate Starts for GrandSlam_11:

(14, 7722), (Start: 22 @7806 has 53 MA's), (25, 7821), (29, 7845), (30, 7848), (Start: 39 @7896 has 53 MA's), (47, 7938), (54, 7983), (55, 7989), (98, 8223), (100, 8238), (104, 8250),

Gene: Gravaillia_10 Start: 7272, Stop: 7712, Start Num: 21

Candidate Starts for Gravaillia_10:

(9, 7005), (17, 7248), (Start: 21 @7272 has 23 MA's), (47, 7368), (71, 7497), (76, 7545), (77, 7548), (79, 7557), (91, 7638), (103, 7704),

Gene: GreaseLightnin_7 Start: 6238, Stop: 6588, Start Num: 40

Candidate Starts for GreaseLightnin_7:

(Start: 35 @6211 has 1 MA's), (Start: 36 @6214 has 1 MA's), (Start: 40 @6238 has 49 MA's), (62, 6367),

Gene: Guacamole_7 Start: 6146, Stop: 6574, Start Num: 22

Candidate Starts for Guacamole_7:

(Start: 22 @6146 has 53 MA's), (Start: 40 @6221 has 49 MA's), (44, 6248), (49, 6272), (86, 6422), (91, 6455), (95, 6485), (99, 6503),

Gene: HH92_10 Start: 7539, Stop: 7979, Start Num: 21

Candidate Starts for HH92_10:

(9, 7272), (17, 7515), (Start: 21 @7539 has 23 MA's), (47, 7635), (71, 7764), (76, 7812), (77, 7815), (79, 7824), (91, 7905), (103, 7971),

Gene: HUHilltop_7 Start: 6238, Stop: 6588, Start Num: 40

Candidate Starts for HUHilltop_7:

(Start: 35 @6211 has 1 MA's), (Start: 36 @6214 has 1 MA's), (Start: 40 @6238 has 49 MA's), (62, 6367),

Gene: Hadrien_10 Start: 7539, Stop: 7979, Start Num: 21

Candidate Starts for Hadrien_10:

(9, 7272), (17, 7515), (Start: 21 @7539 has 23 MA's), (47, 7635), (71, 7764), (76, 7812), (77, 7815), (79, 7824), (91, 7905), (103, 7971),

Gene: Hail_10 Start: 7539, Stop: 7979, Start Num: 21

Candidate Starts for Hail_10:

(9, 7272), (17, 7515), (Start: 21 @7539 has 23 MA's), (47, 7635), (71, 7764), (76, 7812), (77, 7815), (79, 7824), (91, 7905), (103, 7971),

Gene: Haley23_7 Start: 5774, Stop: 6121, Start Num: 39

Candidate Starts for Haley23_7:

(23, 5693), (Start: 39 @5774 has 53 MA's), (43, 5786), (45, 5801), (46, 5804), (62, 5903), (63, 5906), (64, 5909), (96, 6062), (101, 6086),

Gene: Hamood_11 Start: 7806, Stop: 8267, Start Num: 22

Candidate Starts for Hamood_11:

(14, 7722), (Start: 22 @7806 has 53 MA's), (25, 7821), (29, 7845), (30, 7848), (Start: 39 @7896 has 53 MA's), (47, 7938), (54, 7983), (55, 7989), (98, 8223), (100, 8238), (104, 8250),

Gene: HannahD_7 Start: 6123, Stop: 6497, Start Num: 39

Candidate Starts for HannahD_7:

(23, 6042), (26, 6054), (Start: 35 @6099 has 1 MA's), (Start: 39 @6123 has 53 MA's), (43, 6138),

Gene: Hedwig_8 Start: 6478, Stop: 6846, Start Num: 39

Candidate Starts for Hedwig_8:

(2, 5854), (8, 6022), (Start: 35 @6454 has 1 MA's), (Start: 39 @6478 has 53 MA's), (43, 6490), (85, 6724), (90, 6757), (96, 6781),

Gene: Hitter_7 Start: 6142, Stop: 6570, Start Num: 22

Candidate Starts for Hitter_7:

(Start: 22 @6142 has 53 MA's), (Start: 40 @6217 has 49 MA's), (44, 6244), (49, 6268), (86, 6418), (95, 6481), (99, 6499),

Gene: Hortense_7 Start: 5836, Stop: 6276, Start Num: 19

Candidate Starts for Hortense_7:

(4, 5365), (10, 5629), (11, 5653), (14, 5755), (Start: 19 @5836 has 11 MA's), (31, 5896), (41, 5941), (78, 6106), (88, 6157), (102, 6241),

Gene: Howe_7 Start: 5836, Stop: 6276, Start Num: 19

Candidate Starts for Howe_7:

(4, 5365), (10, 5629), (11, 5653), (14, 5755), (Start: 19 @5836 has 11 MA's), (31, 5896), (41, 5941), (78, 6106), (88, 6157), (102, 6241),

Gene: Invectra_8 Start: 6265, Stop: 6585, Start Num: 39

Candidate Starts for Invectra_8:

(8, 5806), (23, 6184), (Start: 36 @6244 has 1 MA's), (Start: 39 @6265 has 53 MA's), (43, 6277), (62, 6394), (74, 6442), (89, 6496), (90, 6502),

Gene: JCole_7 Start: 5786, Stop: 6121, Start Num: 43

Candidate Starts for JCole_7:

(23, 5693), (Start: 39 @5774 has 53 MA's), (43, 5786), (45, 5801), (46, 5804), (62, 5903), (63, 5906), (64, 5909), (96, 6062), (101, 6086),

Gene: Jalammah_7 Start: 6142, Stop: 6570, Start Num: 22

Candidate Starts for Jalammah_7:

(Start: 22 @6142 has 53 MA's), (Start: 40 @6217 has 49 MA's), (44, 6244), (49, 6268), (86, 6418), (95, 6481), (99, 6499),

Gene: Jalleen_7 Start: 5774, Stop: 6121, Start Num: 39

Candidate Starts for Jalleen_7:

(23, 5693), (Start: 39 @5774 has 53 MA's), (43, 5786), (45, 5801), (46, 5804), (62, 5903), (63, 5906), (64, 5909), (96, 6062), (101, 6086),

Gene: JasperJr_7 Start: 6146, Stop: 6574, Start Num: 22

Candidate Starts for JasperJr_7:

(Start: 22 @6146 has 53 MA's), (Start: 40 @6221 has 49 MA's), (44, 6248), (49, 6272), (86, 6422), (91, 6455), (95, 6485), (99, 6503),

Gene: Jebeks_7 Start: 6243, Stop: 6590, Start Num: 40

Candidate Starts for Jebeks_7:

(6, 5760), (13, 6045), (Start: 35 @6216 has 1 MA's), (Start: 36 @6219 has 1 MA's), (Start: 40 @6243 has 49 MA's), (62, 6372),

Gene: JuJu_7 Start: 5980, Stop: 6495, Start Num: 18

Candidate Starts for JuJu_7:

(10, 5776), (14, 5902), (Start: 18 @5980 has 9 MA's), (Start: 19 @5983 has 11 MA's), (31, 6034), (Start: 38 @6058 has 1 MA's), (41, 6079), (42, 6088), (62, 6205), (83, 6322), (89, 6373), (92, 6400), (98, 6436),

Gene: Jung_7 Start: 6225, Stop: 6575, Start Num: 40

Candidate Starts for Jung_7:

(Start: 35 @6198 has 1 MA's), (Start: 36 @6201 has 1 MA's), (Start: 40 @6225 has 49 MA's), (62, 6354),

Gene: Juniormint_7 Start: 6246, Stop: 6593, Start Num: 40

Candidate Starts for Juniormint_7:

(6, 5763), (13, 6048), (Start: 35 @6219 has 1 MA's), (Start: 36 @6222 has 1 MA's), (Start: 40 @6246 has 49 MA's), (62, 6375),

Gene: JustASigh_7 Start: 6534, Stop: 7046, Start Num: 22

Candidate Starts for JustASigh_7:

(17, 6510), (Start: 22 @6534 has 53 MA's), (Start: 40 @6612 has 49 MA's), (46, 6645), (52, 6678), (68, 6774), (95, 6957), (107, 7011),

Gene: KappaFarmDelta_7 Start: 6123, Stop: 6608, Start Num: 22

Candidate Starts for KappaFarmDelta_7:

(17, 6099), (Start: 22 @6123 has 53 MA's), (31, 6162), (Start: 40 @6198 has 49 MA's), (44, 6225), (49, 6249), (51, 6261), (58, 6315), (60, 6321), (71, 6354), (86, 6456), (95, 6519), (99, 6537),

Gene: Kari_7 Start: 6238, Stop: 6588, Start Num: 40

Candidate Starts for Kari_7:

(Start: 35 @6211 has 1 MA's), (Start: 36 @6214 has 1 MA's), (Start: 40 @6238 has 49 MA's), (62, 6367),

Gene: Kiko_8 Start: 6339, Stop: 6689, Start Num: 39

Candidate Starts for Kiko_8:

(23, 6258), (Start: 35 @6315 has 1 MA's), (Start: 39 @6339 has 53 MA's), (43, 6351), (84, 6567), (90, 6600), (96, 6624),

Gene: KilKor_7 Start: 6225, Stop: 6575, Start Num: 40

Candidate Starts for KilKor_7:

(Start: 35 @6198 has 1 MA's), (Start: 36 @6201 has 1 MA's), (Start: 40 @6225 has 49 MA's), (62, 6354),

Gene: Kinbote_10 Start: 7539, Stop: 7979, Start Num: 21

Candidate Starts for Kinbote_10:

(9, 7272), (17, 7515), (Start: 21 @7539 has 23 MA's), (47, 7635), (71, 7764), (76, 7812), (77, 7815), (79, 7824), (91, 7905), (103, 7971),

Gene: Ksquared_7 Start: 6238, Stop: 6588, Start Num: 40

Candidate Starts for Ksquared_7:

(Start: 35 @6211 has 1 MA's), (Start: 36 @6214 has 1 MA's), (Start: 40 @6238 has 49 MA's), (62, 6367),

Gene: Lamberg_7 Start: 5774, Stop: 6121, Start Num: 39

Candidate Starts for Lamberg_7:

(23, 5693), (Start: 39 @5774 has 53 MA's), (43, 5786), (45, 5801), (46, 5804), (62, 5903), (63, 5906), (64, 5909), (96, 6062), (101, 6086),

Gene: Langerak_7 Start: 6243, Stop: 6590, Start Num: 40

Candidate Starts for Langerak_7:

(6, 5760), (13, 6045), (Start: 35 @6216 has 1 MA's), (Start: 36 @6219 has 1 MA's), (Start: 40 @6243 has 49 MA's), (62, 6372),

Gene: LilHazelnut_10 Start: 7539, Stop: 7979, Start Num: 21

Candidate Starts for LilHazelnut_10:

(9, 7272), (17, 7515), (Start: 21 @7539 has 23 MA's), (47, 7635), (71, 7764), (76, 7812), (77, 7815), (79, 7824), (91, 7905), (103, 7971),

Gene: LordFarquaad_7 Start: 5774, Stop: 6121, Start Num: 39

Candidate Starts for LordFarquaad_7:

(8, 5315), (23, 5693), (Start: 39 @5774 has 53 MA's), (43, 5786), (45, 5801), (46, 5804), (62, 5903), (63, 5906), (64, 5909), (96, 6062), (101, 6086),

Gene: Luke_10 Start: 7539, Stop: 7979, Start Num: 21

Candidate Starts for Luke_10:

(9, 7272), (17, 7515), (Start: 21 @7539 has 23 MA's), (47, 7635), (71, 7764), (76, 7812), (77, 7815), (79, 7824), (91, 7905), (103, 7971),

Gene: Luna22_10 Start: 7539, Stop: 7979, Start Num: 21

Candidate Starts for Luna22_10:

(9, 7272), (17, 7515), (Start: 21 @7539 has 23 MA's), (47, 7635), (71, 7764), (76, 7812), (77, 7815), (79, 7824), (91, 7905), (103, 7971),

Gene: Lysidious_7 Start: 6142, Stop: 6570, Start Num: 22

Candidate Starts for Lysidious_7:

(Start: 22 @6142 has 53 MA's), (Start: 40 @6217 has 49 MA's), (44, 6244), (49, 6268), (86, 6418), (91, 6451), (95, 6481), (99, 6499),

Gene: MagicMan_7 Start: 6338, Stop: 6826, Start Num: 20

Candidate Starts for MagicMan_7:

(12, 6227), (15, 6266), (Start: 20 @6338 has 4 MA's), (Start: 38 @6422 has 1 MA's), (48, 6488), (55, 6527), (101, 6791),

Gene: Majeke_7 Start: 6243, Stop: 6590, Start Num: 40

Candidate Starts for Majeke_7:

(6, 5760), (13, 6045), (Start: 35 @6216 has 1 MA's), (Start: 36 @6219 has 1 MA's), (Start: 40 @6243 has 49 MA's), (62, 6372),

Gene: MakCheese_7 Start: 6342, Stop: 6779, Start Num: 22

Candidate Starts for MakCheese_7:

(14, 6258), (Start: 22 @6342 has 53 MA's), (29, 6381), (30, 6384), (54, 6519), (71, 6579), (104, 6765),

Gene: Malachai_7 Start: 6145, Stop: 6573, Start Num: 22

Candidate Starts for Malachai_7:

(Start: 22 @6145 has 53 MA's), (34, 6187), (Start: 40 @6220 has 49 MA's), (44, 6247), (86, 6421), (91, 6454), (95, 6484),

Gene: Malibo_7 Start: 6358, Stop: 6762, Start Num: 22

Candidate Starts for Malibo_7:

(14, 6274), (Start: 22 @6358 has 53 MA's), (32, 6397), (53, 6508), (68, 6556), (98, 6721),

Gene: Malithi_7 Start: 6238, Stop: 6588, Start Num: 40

Candidate Starts for Malithi_7:

(Start: 35 @6211 has 1 MA's), (Start: 36 @6214 has 1 MA's), (Start: 40 @6238 has 49 MA's), (62, 6367),

Gene: Mangethe_7 Start: 6243, Stop: 6590, Start Num: 40

Candidate Starts for Mangethe_7:

(6, 5760), (13, 6045), (Start: 35 @6216 has 1 MA's), (Start: 36 @6219 has 1 MA's), (Start: 40 @6243 has 49 MA's), (62, 6372),

Gene: Matteo_7 Start: 5774, Stop: 6121, Start Num: 39

Candidate Starts for Matteo_7:

(8, 5315), (23, 5693), (Start: 39 @5774 has 53 MA's), (43, 5786), (45, 5801), (46, 5804), (62, 5903), (63, 5906), (64, 5909), (96, 6062), (101, 6086),

Gene: Mbo4_7 Start: 6382, Stop: 6798, Start Num: 20

Candidate Starts for Mbo4_7:

(17, 6361), (Start: 20 @6382 has 4 MA's), (Start: 22 @6388 has 53 MA's), (24, 6400), (34, 6430), (44, 6481), (50, 6514), (55, 6541),

Gene: Megiddo_7 Start: 6225, Stop: 6575, Start Num: 40

Candidate Starts for Megiddo_7:

(Start: 35 @6198 has 1 MA's), (Start: 36 @6201 has 1 MA's), (Start: 40 @6225 has 49 MA's), (62, 6354),

Gene: Melba_7 Start: 6142, Stop: 6570, Start Num: 22

Candidate Starts for Melba_7:

(Start: 22 @6142 has 53 MA's), (Start: 40 @6217 has 49 MA's), (44, 6244), (49, 6268), (86, 6418), (91, 6451), (95, 6481), (99, 6499),

Gene: Mellie_7 Start: 6142, Stop: 6570, Start Num: 22

Candidate Starts for Mellie_7:

(Start: 22 @6142 has 53 MA's), (Start: 40 @6217 has 49 MA's), (44, 6244), (49, 6268), (86, 6418), (95, 6481), (99, 6499),

Gene: MichaelScott_8 Start: 6265, Stop: 6585, Start Num: 39

Candidate Starts for MichaelScott_8:

(8, 5806), (23, 6184), (Start: 36 @6244 has 1 MA's), (Start: 39 @6265 has 53 MA's), (43, 6277), (62, 6394), (74, 6442), (90, 6502),

Gene: MintFen_7 Start: 6142, Stop: 6570, Start Num: 22

Candidate Starts for MintFen_7:

(Start: 22 @6142 has 53 MA's), (Start: 40 @6217 has 49 MA's), (44, 6244), (49, 6268), (86, 6418), (91, 6451), (95, 6481), (99, 6499),

Gene: MissRona_7 Start: 5970, Stop: 6446, Start Num: 19

Candidate Starts for MissRona_7:

(10, 5763), (14, 5889), (Start: 18 @5967 has 9 MA's), (Start: 19 @5970 has 11 MA's), (31, 6021), (Start: 38 @6045 has 1 MA's), (41, 6066), (42, 6075), (83, 6291), (89, 6324), (92, 6351), (98, 6387),

Gene: Mocha12_7 Start: 5774, Stop: 6121, Start Num: 39

Candidate Starts for Mocha12_7:

(23, 5693), (Start: 39 @5774 has 53 MA's), (43, 5786), (45, 5801), (46, 5804), (62, 5903), (63, 5906), (64, 5909), (96, 6062), (101, 6086),

Gene: Moonflower_8 Start: 6504, Stop: 6878, Start Num: 39

Candidate Starts for Moonflower_8:

(Start: 35 @6480 has 1 MA's), (Start: 39 @6504 has 53 MA's), (62, 6633), (90, 6789), (96, 6813),

Gene: Mulch_11 Start: 7773, Stop: 8234, Start Num: 22

Candidate Starts for Mulch_11:

(14, 7689), (Start: 22 @7773 has 53 MA's), (25, 7788), (29, 7812), (30, 7815), (33, 7827), (Start: 39 @7863 has 53 MA's), (47, 7905), (54, 7950), (55, 7956), (98, 8190), (100, 8205), (104, 8217),

Gene: Murp_7 Start: 6126, Stop: 6611, Start Num: 22

Candidate Starts for Murp_7:

(17, 6102), (Start: 22 @6126 has 53 MA's), (31, 6165), (Start: 40 @6201 has 49 MA's), (44, 6228), (49, 6252), (51, 6264), (58, 6318), (60, 6324), (71, 6357), (86, 6459), (95, 6522), (99, 6540),

Gene: Nadeem_11 Start: 7773, Stop: 8234, Start Num: 22

Candidate Starts for Nadeem_11:

(14, 7689), (Start: 22 @7773 has 53 MA's), (25, 7788), (29, 7812), (30, 7815), (33, 7827), (Start: 39 @7863 has 53 MA's), (47, 7905), (54, 7950), (55, 7956), (98, 8190), (100, 8205), (104, 8217),

Gene: NancyRae_11 Start: 7773, Stop: 8234, Start Num: 22

Candidate Starts for NancyRae_11:

(14, 7689), (Start: 22 @7773 has 53 MA's), (25, 7788), (29, 7812), (30, 7815), (33, 7827), (Start: 39 @7863 has 53 MA's), (47, 7905), (54, 7950), (55, 7956), (98, 8190), (100, 8205), (104, 8217),

Gene: Nazo_7 Start: 6216, Stop: 6557, Start Num: 40

Candidate Starts for Nazo_7:

(13, 6018), (Start: 35 @6189 has 1 MA's), (Start: 36 @6192 has 1 MA's), (Start: 40 @6216 has 49 MA's), (62, 6345),

Gene: Necropolis_7 Start: 6238, Stop: 6588, Start Num: 40

Candidate Starts for Necropolis_7:

(Start: 35 @6211 has 1 MA's), (Start: 36 @6214 has 1 MA's), (Start: 40 @6238 has 49 MA's), (62, 6367),

Gene: Nettuno_7 Start: 5774, Stop: 6121, Start Num: 39

Candidate Starts for Nettuno_7:

(23, 5693), (Start: 39 @5774 has 53 MA's), (43, 5786), (45, 5801), (46, 5804), (62, 5903), (63, 5906), (64, 5909), (96, 6062), (101, 6086),

Gene: NovoPizza_8 Start: 7682, Stop: 8107, Start Num: 21

Candidate Starts for NovoPizza_8:

(Start: 21 @7682 has 23 MA's), (24, 7697), (25, 7700), (28, 7715), (70, 7904), (89, 8015), (90, 8021), (94, 8048),

Gene: OBUpride_10 Start: 7533, Stop: 7973, Start Num: 21

Candidate Starts for OBUpride_10:

(9, 7266), (17, 7509), (Start: 21 @7533 has 23 MA's), (47, 7629), (71, 7758), (76, 7806), (77, 7809), (79, 7818), (91, 7899), (103, 7965),

Gene: Obliviate_7 Start: 6166, Stop: 6594, Start Num: 22

Candidate Starts for Obliviate_7:

(Start: 22 @6166 has 53 MA's), (Start: 40 @6241 has 49 MA's), (44, 6268), (86, 6442), (91, 6475), (95, 6505), (99, 6523),

Gene: Ohgeesy_7 Start: 5824, Stop: 6270, Start Num: 19

Candidate Starts for Ohgeesy_7:

(Start: 18 @5821 has 9 MA's), (Start: 19 @5824 has 11 MA's), (31, 5875), (41, 5920), (42, 5929), (73, 6058), (102, 6235),

Gene: Opie_7 Start: 6347, Stop: 6841, Start Num: 20

Candidate Starts for Opie_7:

(12, 6236), (15, 6275), (Start: 20 @6347 has 4 MA's), (Start: 38 @6431 has 1 MA's), (55, 6536), (101, 6806),

Gene: Oregano_8 Start: 5936, Stop: 6256, Start Num: 39

Candidate Starts for Oregano_8:

(8, 5477), (23, 5855), (Start: 36 @5915 has 1 MA's), (Start: 39 @5936 has 53 MA's), (43, 5948), (62, 6065), (74, 6113), (89, 6167), (90, 6173),

Gene: PCoral7_7 Start: 6141, Stop: 6554, Start Num: 22

Candidate Starts for PCoral7_7:

(17, 6114), (Start: 22 @6141 has 53 MA's), (Start: 40 @6216 has 49 MA's), (44, 6243), (49, 6267), (59, 6327), (69, 6354), (71, 6357),

Gene: PantheRoc_7 Start: 5824, Stop: 6270, Start Num: 19

Candidate Starts for PantheRoc_7:

(4, 5353), (5, 5398), (10, 5617), (14, 5743), (Start: 18 @5821 has 9 MA's), (Start: 19 @5824 has 11 MA's), (31, 5875), (41, 5920), (42, 5929), (73, 6058), (102, 6235),

Gene: Parada_11 Start: 7773, Stop: 8234, Start Num: 22

Candidate Starts for Parada_11:

(14, 7689), (Start: 22 @7773 has 53 MA's), (25, 7788), (29, 7812), (30, 7815), (33, 7827), (Start: 39 @7863 has 53 MA's), (47, 7905), (54, 7950), (55, 7956), (98, 8190), (100, 8205), (104, 8217),

Gene: PeanutPie_7 Start: 6229, Stop: 6579, Start Num: 40

Candidate Starts for PeanutPie_7:

(Start: 35 @6202 has 1 MA's), (Start: 36 @6205 has 1 MA's), (Start: 40 @6229 has 49 MA's), (62, 6358),

Gene: Petra_7 Start: 6045, Stop: 6476, Start Num: 38

Candidate Starts for Petra_7:

(10, 5763), (14, 5889), (Start: 18 @5967 has 9 MA's), (Start: 19 @5970 has 11 MA's), (31, 6021), (Start: 38 @6045 has 1 MA's), (41, 6066), (42, 6075), (62, 6195), (75, 6267), (83, 6321), (89, 6354), (92, 6381), (98, 6417),

Gene: Phalm_7 Start: 6225, Stop: 6575, Start Num: 40

Candidate Starts for Phalm_7:

(Start: 35 @6198 has 1 MA's), (Start: 36 @6201 has 1 MA's), (Start: 40 @6225 has 49 MA's), (62, 6354),

Gene: Phayonce_7 Start: 6224, Stop: 6577, Start Num: 40

Candidate Starts for Phayonce_7:

(23, 6140), (Start: 36 @6200 has 1 MA's), (Start: 40 @6224 has 49 MA's), (43, 6239), (62, 6356),

Gene: Phegasus_7 Start: 6243, Stop: 6590, Start Num: 40

Candidate Starts for Phegasus_7:

(6, 5760), (13, 6045), (Start: 35 @6216 has 1 MA's), (Start: 36 @6219 has 1 MA's), (Start: 40 @6243 has 49 MA's), (62, 6372),

Gene: Phineas_7 Start: 6199, Stop: 6576, Start Num: 35

Candidate Starts for Phineas_7:

(Start: 35 @6199 has 1 MA's), (Start: 36 @6202 has 1 MA's), (Start: 40 @6226 has 49 MA's), (62, 6355),

Gene: PhriskyACE_7 Start: 5763, Stop: 6089, Start Num: 39

Candidate Starts for PhriskyACE_7:

(8, 5304), (23, 5682), (Start: 36 @5742 has 1 MA's), (Start: 39 @5763 has 53 MA's), (43, 5775), (62, 5892), (89, 6000), (90, 6006),

Gene: PhrostedPhlake_7 Start: 6160, Stop: 6651, Start Num: 22

Candidate Starts for PhrostedPhlake_7:

(Start: 22 @6160 has 53 MA's), (31, 6199), (Start: 40 @6235 has 49 MA's), (44, 6262), (49, 6286), (58, 6352), (60, 6358), (71, 6397), (86, 6499), (91, 6532), (95, 6562),

Gene: Pickett_7 Start: 5774, Stop: 6121, Start Num: 39

Candidate Starts for Pickett_7:

(8, 5315), (23, 5693), (Start: 39 @5774 has 53 MA's), (43, 5786), (45, 5801), (46, 5804), (62, 5903), (63, 5906), (64, 5909), (96, 6062), (101, 6086),

Gene: Pimento_11 Start: 7770, Stop: 8225, Start Num: 22

Candidate Starts for Pimento_11:

(14, 7686), (Start: 22 @7770 has 53 MA's), (25, 7785), (29, 7809), (30, 7812), (33, 7824), (Start: 39 @7860 has 53 MA's), (47, 7902), (54, 7947), (55, 7953), (98, 8181), (100, 8196),

Gene: Pipp_7 Start: 6166, Stop: 6594, Start Num: 22

Candidate Starts for Pipp_7:

(Start: 22 @6166 has 53 MA's), (Start: 40 @6241 has 49 MA's), (44, 6268), (49, 6292), (60, 6349), (86, 6442),

Gene: Polkaroo_7 Start: 6238, Stop: 6588, Start Num: 40

Candidate Starts for Polkaroo_7:

(Start: 35 @6211 has 1 MA's), (Start: 36 @6214 has 1 MA's), (Start: 40 @6238 has 49 MA's), (62, 6367),

Gene: Powerball_7 Start: 5763, Stop: 6089, Start Num: 39

Candidate Starts for Powerball_7:

(23, 5682), (Start: 35 @5739 has 1 MA's), (Start: 39 @5763 has 53 MA's), (43, 5775), (56, 5844), (62, 5892), (89, 6000), (90, 6006),

Gene: PrincePatrick_7 Start: 6142, Stop: 6555, Start Num: 22

Candidate Starts for PrincePatrick_7:

(17, 6115), (Start: 22 @6142 has 53 MA's), (Start: 40 @6217 has 49 MA's), (44, 6244), (49, 6268), (55, 6304), (59, 6328), (69, 6355), (71, 6358),

Gene: Purky_7 Start: 6215, Stop: 6592, Start Num: 40

Candidate Starts for Purky_7:

(23, 6131), (Start: 36 @6191 has 1 MA's), (Start: 40 @6215 has 49 MA's), (62, 6344), (85, 6476), (90, 6509),

Gene: Pygmy_7 Start: 6226, Stop: 6576, Start Num: 40

Candidate Starts for Pygmy_7:

(Start: 35 @6199 has 1 MA's), (Start: 36 @6202 has 1 MA's), (Start: 40 @6226 has 49 MA's), (62, 6355),

Gene: REQ2_07 Start: 5849, Stop: 6256, Start Num: 22

Candidate Starts for REQ2_07:

(17, 5825), (Start: 22 @5849 has 53 MA's), (24, 5861), (95, 6194), (97, 6203),

Gene: RayTheFireFly_8 Start: 6505, Stop: 6879, Start Num: 39

Candidate Starts for RayTheFireFly_8:

(23, 6424), (26, 6436), (Start: 35 @6481 has 1 MA's), (Start: 39 @6505 has 53 MA's), (90, 6790), (96, 6814),

Gene: Ruthy_7 Start: 6423, Stop: 6830, Start Num: 22

Candidate Starts for Ruthy_7:

(14, 6339), (17, 6399), (Start: 22 @6423 has 53 MA's), (53, 6573), (54, 6576), (98, 6786),

Gene: Sahara_7 Start: 5765, Stop: 6136, Start Num: 39

Candidate Starts for Sahara_7:

(8, 5306), (23, 5684), (Start: 39 @5765 has 53 MA's), (43, 5777), (45, 5792), (46, 5795), (62, 5894), (63, 5897), (64, 5900),

Gene: Samba_7 Start: 6143, Stop: 6571, Start Num: 22

Candidate Starts for Samba_7:

(Start: 22 @6143 has 53 MA's), (Start: 40 @6218 has 49 MA's), (44, 6245), (49, 6269), (86, 6419), (95, 6482), (99, 6500),

Gene: Samman98_8 Start: 6265, Stop: 6585, Start Num: 39

Candidate Starts for Samman98_8:

(8, 5806), (23, 6184), (Start: 36 @6244 has 1 MA's), (Start: 39 @6265 has 53 MA's), (43, 6277), (62, 6394), (74, 6442), (89, 6496), (90, 6502),

Gene: Savage_7 Start: 5774, Stop: 6121, Start Num: 39

Candidate Starts for Savage_7:

(23, 5693), (Start: 39 @5774 has 53 MA's), (43, 5786), (45, 5801), (46, 5804), (62, 5903), (63, 5906), (64, 5909), (96, 6062), (101, 6086),

Gene: Schnabeltier_7 Start: 6339, Stop: 6827, Start Num: 20

Candidate Starts for Schnabeltier_7:

(12, 6228), (15, 6267), (Start: 20 @6339 has 4 MA's), (Start: 38 @6423 has 1 MA's), (48, 6489), (55, 6528), (101, 6792),

Gene: Sekhmet_8 Start: 6265, Stop: 6585, Start Num: 39

Candidate Starts for Sekhmet_8:

(8, 5806), (23, 6184), (Start: 36 @6244 has 1 MA's), (Start: 39 @6265 has 53 MA's), (43, 6277), (62, 6394), (74, 6442), (89, 6496), (90, 6502),

Gene: Shipwreck_7 Start: 6226, Stop: 6576, Start Num: 40

Candidate Starts for Shipwreck_7:

(Start: 35 @6199 has 1 MA's), (Start: 36 @6202 has 1 MA's), (Start: 40 @6226 has 49 MA's), (62, 6355),

Gene: Shlim410_7 Start: 5836, Stop: 6276, Start Num: 19

Candidate Starts for Shlim410_7:

(4, 5365), (10, 5629), (11, 5653), (14, 5755), (Start: 19 @5836 has 11 MA's), (31, 5896), (41, 5941), (78, 6106), (88, 6157), (102, 6241),

Gene: Sidious_7 Start: 5827, Stop: 6273, Start Num: 19

Candidate Starts for Sidious_7:

(4, 5356), (5, 5401), (10, 5620), (14, 5746), (Start: 18 @5824 has 9 MA's), (Start: 19 @5827 has 11 MA's), (31, 5878), (37, 5899), (41, 5923), (73, 6061), (80, 6106), (102, 6238),

Gene: SoilAssassin_7 Start: 5774, Stop: 6121, Start Num: 39

Candidate Starts for SoilAssassin_7:

(8, 5315), (23, 5693), (Start: 39 @5774 has 53 MA's), (43, 5786), (45, 5801), (46, 5804), (62, 5903), (63, 5906), (64, 5909), (96, 6062), (101, 6086),

Gene: Sonah_7 Start: 6243, Stop: 6590, Start Num: 40

Candidate Starts for Sonah_7:

(6, 5760), (13, 6045), (Start: 35 @6216 has 1 MA's), (Start: 36 @6219 has 1 MA's), (Start: 40 @6243 has 49 MA's), (62, 6372),

Gene: Sprinklemunch_7 Start: 6361, Stop: 6819, Start Num: 22

Candidate Starts for Sprinklemunch_7:

(3, 5884), (7, 5977), (14, 6277), (Start: 22 @6361 has 53 MA's), (29, 6400), (30, 6403), (54, 6538), (104, 6805),

Gene: Sproutie_7 Start: 5774, Stop: 6121, Start Num: 39

Candidate Starts for Sproutie_7:

(23, 5693), (Start: 39 @5774 has 53 MA's), (43, 5786), (45, 5801), (46, 5804), (62, 5903), (63, 5906), (64, 5909), (96, 6062), (101, 6086),

Gene: StevieRay_7 Start: 6229, Stop: 6579, Start Num: 40

Candidate Starts for StevieRay_7:

(Start: 35 @6202 has 1 MA's), (Start: 36 @6205 has 1 MA's), (Start: 40 @6229 has 49 MA's), (62, 6358),

Gene: StressBall_7 Start: 6225, Stop: 6575, Start Num: 40

Candidate Starts for StressBall_7:

(Start: 35 @6198 has 1 MA's), (Start: 36 @6201 has 1 MA's), (Start: 40 @6225 has 49 MA's), (62, 6354),

Gene: Suerte_7 Start: 5763, Stop: 6083, Start Num: 39

Candidate Starts for Suerte_7:

(8, 5304), (23, 5682), (Start: 36 @5742 has 1 MA's), (Start: 39 @5763 has 53 MA's), (43, 5775), (62, 5892), (74, 5940), (89, 5994), (90, 6000),

Gene: TaronosaurusRx_7 Start: 6346, Stop: 6837, Start Num: 20

Candidate Starts for TaronosaurusRx_7:

(12, 6235), (15, 6274), (Start: 20 @6346 has 4 MA's), (Start: 38 @6430 has 1 MA's), (48, 6496), (55, 6535), (91, 6766), (101, 6802),

Gene: Techage_7 Start: 6246, Stop: 6593, Start Num: 40

Candidate Starts for Techage_7:

(6, 5763), (13, 6048), (Start: 35 @6219 has 1 MA's), (Start: 36 @6222 has 1 MA's), (Start: 40 @6246 has 49 MA's), (62, 6375),

Gene: Thespis_7 Start: 6225, Stop: 6575, Start Num: 40

Candidate Starts for Thespis_7:

(Start: 35 @6198 has 1 MA's), (Start: 36 @6201 has 1 MA's), (Start: 40 @6225 has 49 MA's), (62, 6354),

Gene: Thimann_8 Start: 6265, Stop: 6585, Start Num: 39

Candidate Starts for Thimann_8:

(8, 5806), (23, 6184), (Start: 36 @6244 has 1 MA's), (Start: 39 @6265 has 53 MA's), (43, 6277), (62, 6394), (74, 6442), (89, 6496), (90, 6502),

Gene: ThulaThula_7 Start: 6269, Stop: 6622, Start Num: 40

Candidate Starts for ThulaThula_7:

(23, 6185), (Start: 36 @6245 has 1 MA's), (Start: 40 @6269 has 49 MA's), (43, 6284), (62, 6401),

Gene: Toast_7 Start: 6141, Stop: 6554, Start Num: 22

Candidate Starts for Toast_7:

(17, 6114), (Start: 22 @6141 has 53 MA's), (Start: 40 @6216 has 49 MA's), (44, 6243), (49, 6267), (59, 6327), (69, 6354), (71, 6357),

Gene: Tortellini_7 Start: 6196, Stop: 6534, Start Num: 40

Candidate Starts for Tortellini_7:

(23, 6112), (Start: 36 @6172 has 1 MA's), (Start: 40 @6196 has 49 MA's), (62, 6325), (72, 6367), (85, 6418), (90, 6451),

Gene: TuertoX_7 Start: 5774, Stop: 6121, Start Num: 39

Candidate Starts for TuertoX_7:

(23, 5693), (Start: 39 @5774 has 53 MA's), (43, 5786), (45, 5801), (46, 5804), (62, 5903), (63, 5906), (64, 5909), (96, 6062), (101, 6086),

Gene: Tuti_9 Start: 6265, Stop: 6585, Start Num: 39

Candidate Starts for Tuti_9:

(8, 5806), (23, 6184), (Start: 36 @6244 has 1 MA's), (Start: 39 @6265 has 53 MA's), (43, 6277), (62, 6394), (74, 6442), (90, 6502),

Gene: Twinkle_7 Start: 5836, Stop: 6276, Start Num: 19

Candidate Starts for Twinkle_7:

(4, 5365), (10, 5629), (11, 5653), (14, 5755), (Start: 19 @5836 has 11 MA's), (31, 5896), (41, 5941), (78, 6106), (88, 6157), (102, 6241),

Gene: Ubuntu_10 Start: 7539, Stop: 7979, Start Num: 21

Candidate Starts for Ubuntu_10:

(9, 7272), (17, 7515), (Start: 21 @7539 has 23 MA's), (47, 7635), (71, 7764), (76, 7812), (77, 7815), (79, 7824), (91, 7905), (103, 7971),

Gene: UmaThurman_7 Start: 6142, Stop: 6570, Start Num: 22

Candidate Starts for UmaThurman_7:

(Start: 22 @6142 has 53 MA's), (Start: 40 @6217 has 49 MA's), (44, 6244), (49, 6268), (86, 6418), (95, 6481), (99, 6499),

Gene: Utz_7 Start: 6142, Stop: 6570, Start Num: 22

Candidate Starts for Utz_7:

(Start: 22 @6142 has 53 MA's), (Start: 40 @6217 has 49 MA's), (44, 6244), (49, 6268), (86, 6418), (91, 6451), (95, 6481), (99, 6499),

Gene: Vasanti_7 Start: 5775, Stop: 6125, Start Num: 39

Candidate Starts for Vasanti_7:

(2, 5148), (8, 5316), (23, 5694), (Start: 39 @5775 has 53 MA's), (43, 5787), (45, 5802), (46, 5805), (62, 5904), (63, 5907), (64, 5910), (81, 5985), (96, 6066), (101, 6090),

Gene: Venti_7 Start: 6238, Stop: 6588, Start Num: 40

Candidate Starts for Venti_7:

(Start: 35 @6211 has 1 MA's), (Start: 36 @6214 has 1 MA's), (Start: 40 @6238 has 49 MA's), (62, 6367),

Gene: Vidya_7 Start: 6238, Stop: 6588, Start Num: 40

Candidate Starts for Vidya_7:

(Start: 35 @6211 has 1 MA's), (Start: 36 @6214 has 1 MA's), (Start: 40 @6238 has 49 MA's), (62, 6367),

Gene: Walrus_7 Start: 5970, Stop: 6482, Start Num: 18

Candidate Starts for Walrus_7:

(10, 5766), (14, 5892), (Start: 18 @5970 has 9 MA's), (Start: 19 @5973 has 11 MA's), (31, 6024), (Start: 38 @6048 has 1 MA's), (42, 6078), (62, 6201), (75, 6273), (83, 6327), (89, 6360), (92, 6387), (98, 6423),

Gene: Webster2_10 Start: 7539, Stop: 7979, Start Num: 21

Candidate Starts for Webster2_10:

(9, 7272), (17, 7515), (Start: 21 @7539 has 23 MA's), (47, 7635), (71, 7764), (76, 7812), (77, 7815), (79, 7824), (91, 7905), (103, 7971),

Gene: Weirido19_8 Start: 6377, Stop: 6886, Start Num: 22

Candidate Starts for Weirido19_8:

(14, 6293), (17, 6353), (Start: 22 @6377 has 53 MA's), (27, 6404), (45, 6485), (47, 6491), (52, 6521), (61, 6575), (65, 6596), (67, 6611), (80, 6695), (93, 6773),

Gene: Whack_7 Start: 5839, Stop: 6255, Start Num: 18

Candidate Starts for Whack_7:

(10, 5635), (16, 5818), (Start: 18 @5839 has 9 MA's), (Start: 19 @5842 has 11 MA's), (43, 5950), (82, 6127),

Gene: WheatThin_11 Start: 7773, Stop: 8234, Start Num: 22

Candidate Starts for WheatThin_11:

(14, 7689), (Start: 22 @7773 has 53 MA's), (25, 7788), (29, 7812), (30, 7815), (33, 7827), (Start: 39 @7863 has 53 MA's), (47, 7905), (54, 7950), (55, 7956), (98, 8190), (100, 8205), (104, 8217),

Gene: Whiteclaw_7 Start: 5774, Stop: 6121, Start Num: 39

Candidate Starts for Whiteclaw_7:

(23, 5693), (Start: 39 @5774 has 53 MA's), (43, 5786), (45, 5801), (46, 5804), (62, 5903), (63, 5906), (64, 5909), (96, 6062), (101, 6086),

Gene: William_7 Start: 6141, Stop: 6569, Start Num: 22

Candidate Starts for William_7:

(17, 6114), (Start: 22 @6141 has 53 MA's), (Start: 40 @6216 has 49 MA's), (44, 6243), (49, 6267), (59, 6327), (69, 6369), (71, 6372),

Gene: Willsammy_7 Start: 6228, Stop: 6578, Start Num: 40

Candidate Starts for Willsammy_7:

(Start: 35 @6201 has 1 MA's), (Start: 36 @6204 has 1 MA's), (Start: 40 @6228 has 49 MA's), (62, 6357),

Gene: WinkNick_8 Start: 6265, Stop: 6585, Start Num: 39

Candidate Starts for WinkNick_8:

(8, 5806), (23, 6184), (Start: 36 @6244 has 1 MA's), (Start: 39 @6265 has 53 MA's), (43, 6277), (62, 6394), (74, 6442), (89, 6496), (90, 6502),

Gene: Wishmaker_10 Start: 7539, Stop: 7979, Start Num: 21

Candidate Starts for Wishmaker_10:

(9, 7272), (17, 7515), (Start: 21 @7539 has 23 MA's), (47, 7635), (71, 7764), (76, 7812), (77, 7815), (79, 7824), (91, 7905), (103, 7971),

Gene: Wisp_7 Start: 6142, Stop: 6570, Start Num: 22

Candidate Starts for Wisp_7:

(Start: 22 @6142 has 53 MA's), (Start: 40 @6217 has 49 MA's), (44, 6244), (49, 6268), (86, 6418), (91, 6451), (95, 6481), (99, 6499),

Gene: Wocket_7 Start: 6129, Stop: 6635, Start Num: 22

Candidate Starts for Wocket_7:

(1, 5271), (3, 5652), (14, 6045), (17, 6105), (Start: 22 @6129 has 53 MA's), (31, 6168), (Start: 40 @6204 has 49 MA's), (44, 6231), (49, 6255), (57, 6312), (65, 6351), (86, 6483), (95, 6546), (99, 6564),

Gene: Xavia_7 Start: 6240, Stop: 6590, Start Num: 40

Candidate Starts for Xavia_7:

(Start: 35 @6213 has 1 MA's), (Start: 36 @6216 has 1 MA's), (Start: 40 @6240 has 49 MA's), (62, 6369),

Gene: Yeet412_7 Start: 5774, Stop: 6121, Start Num: 39

Candidate Starts for Yeet412_7:

(8, 5315), (23, 5693), (Start: 39 @5774 has 53 MA's), (43, 5786), (45, 5801), (46, 5804), (62, 5903), (63, 5906), (64, 5909), (96, 6062), (101, 6086),

Gene: Yeezy_7 Start: 5821, Stop: 6270, Start Num: 18

Candidate Starts for Yeezy_7:

(4, 5353), (5, 5398), (10, 5617), (14, 5743), (Start: 18 @5821 has 9 MA's), (Start: 19 @5824 has 11 MA's), (41, 5920), (102, 6235), (106, 6250),

Gene: ZAYM_7 Start: 6339, Stop: 6830, Start Num: 20

Candidate Starts for ZAYM_7:

(12, 6228), (15, 6267), (Start: 20 @6339 has 4 MA's), (Start: 38 @6423 has 1 MA's), (48, 6489), (55, 6528), (91, 6759), (101, 6795), (105, 6810),

Gene: Zarbodnamra_7 Start: 6141, Stop: 6569, Start Num: 22

Candidate Starts for Zarbodnamra_7:

(Start: 22 @6141 has 53 MA's), (Start: 40 @6216 has 49 MA's), (44, 6243), (49, 6267), (86, 6417), (91, 6450), (95, 6480), (99, 6498),

Gene: ZiggyZoo_7 Start: 6166, Stop: 6594, Start Num: 22

Candidate Starts for ZiggyZoo_7:

(Start: 22 @6166 has 53 MA's), (Start: 40 @6241 has 49 MA's), (44, 6268), (86, 6442), (91, 6475), (95, 6505), (99, 6523),

Gene: Zilizebeth_7 Start: 6238, Stop: 6588, Start Num: 40

Candidate Starts for Zilizebeth_7:

(Start: 35 @6211 has 1 MA's), (Start: 36 @6214 has 1 MA's), (Start: 40 @6238 has 49 MA's), (62, 6367),

Gene: Zilla_7 Start: 6131, Stop: 6622, Start Num: 22

Candidate Starts for Zilla_7:

(14, 6047), (17, 6107), (Start: 22 @6131 has 53 MA's), (31, 6170), (44, 6233), (49, 6257), (59, 6323), (60, 6326), (65, 6350), (71, 6374), (86, 6470), (91, 6503), (95, 6533), (99, 6551),

Gene: Zodiariah_7 Start: 6347, Stop: 6769, Start Num: 22

Candidate Starts for Zodiariah_7:

(14, 6263), (Start: 22 @6347 has 53 MA's), (29, 6386), (30, 6389), (54, 6524), (71, 6569), (104, 6755),