



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 163419 Report

This analysis was run 04/28/24 on database version 559.

Pham number 163419 has 139 members, 13 are drafts.

Phages represented in each track:

- Track 1 : Utz_7, Delian_7, Zarbodnamra_7, MintFen_7, Guacamole_7, Lysidious_7, Melba_7, Barco_7, Wisp_7, BlingBling_7, CaptainKirk2_7, JasperJr_7
- Track 2 : William_7, PCoral7_7, Toast_7
- Track 3 : UmaThurman_7, Jalammah_7, Mellie_7, Samba_7, Archis_7, Hitter_7
- Track 4 : Malachai_7, Begonia_7
- Track 5 : Fairfaxidum_7, PrincePatrick_7
- Track 6 : Wocket_7
- Track 7 : Fenry_7
- Track 8 : PhrostedPhlake_7
- Track 9 : ZiggyZoo_7, Obliviate_7
- Track 10 : Murp_7, KappaFarmDelta_7
- Track 11 : Pipp_7
- Track 12 : EdnaMode_7, Lamberg_7, Cynthia_7, Clap_7, GemG_7, Denise_7, Whiteclaw_7, Mocha12_7, Gizermo_7, Nettuno_7, TueritoX_7, Ebert_7, Savage_7, Sproutie_7, Haley23_7
- Track 13 : JCole_7
- Track 14 : Yeet412_7, Attis_7, SoilAssassin_7, Matteo_7, Bjanes7_7, Pickett_7, LordFarquaad_7
- Track 15 : Vasanti_7
- Track 16 : Sahara_7
- Track 17 : Easley_8, MichaelScott_8
- Track 18 : Clark_8
- Track 19 : Sekhmet_8, Suerte_7, Dolores_8, Samman98_8, WinkNick_8, Thimann_8, Oregano_8
- Track 20 : DobbysSock_7
- Track 21 : Beenie_8
- Track 22 : Powerball_7
- Track 23 : Annalisa_8
- Track 24 : Dorito_7, PhriskyACE_7
- Track 25 : Doggs_7, Coriander_8
- Track 26 : GEazy_7, HannahD_7
- Track 27 : Bunker_7, BBQValindra_7
- Track 28 : Bowser_7
- Track 29 : Eyes_7
- Track 30 : Hedwig_8, DirtyBoi_8
- Track 31 : Dmitri_8
- Track 32 : Kiko_8

- Track 33 : BackstagePass_7
- Track 34 : Stiles_7
- Track 35 : Langerak_7, Mangethe_7, Sonah_7, Majeke_7, Donovan_7, Arib1_7, Phegasus_7, Jebeks_7, Juniormint_7, Techage_7
- Track 36 : Thespis_7, Glaske_7, StevieRay_7, Venti_7, Brusacoram_7, Malithi_7, Shipwreck_7, Bunnies_7, Atcoo_7, Camster_7, Megiddo_7, FirstPlacePfu_7, Polkaroo_7, Pygmy_7, Jung_7, KilKor_7, HUHilltop_7, Necropolis_7, StressBall_7, Xavia_7, Dynamo_7, Willsammy_7, Bartholomew_7, Bogie_7, CactusJack_7, Zilizebeth_7, Fishburne_7, Phalm_7, Kari_7, Ksquared_7, Vidya_7, GreaseLightnin_7
- Track 37 : Phineas_7
- Track 38 : Tortellini_7
- Track 39 : BigNuz_7, Nazo_7
- Track 40 : ThulaThula_7, Phayonce_7
- Track 41 : Purky_7
- Track 42 : REQ2_07
- Track 43 : 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 19, it was called in 48 of the 126 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, GEazy_7, GemG_7, Gizermo_7, Haley23_7, HannahD_7, Hedwig_8, Kiko_8, Lamberg_7, LordFarquaad_7, Matteo_7, MichaelScott_8, Mocha12_7, Nettuno_7, Oregano_8, PhriskyACE_7, Pickett_7, Powerball_7, Sahara_7, Samman98_8, Savage_7, Sekhmet_8, SoilAssassin_7, Sproutie_7, Suerte_7, Thimann_8, TuertoX_7, Vasanti_7, Whiteclaw_7, WinkNick_8, Yeet412_7,

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

- Archis_7, Barco_7, Beenie_8, Begonia_7, BlingBling_7, CaptainKirk2_7, Delian_7, Fairfaxidum_7, Fenry_7, Guacamole_7, Hitter_7, JCole_7, Jalammah_7, JasperJr_7, KappaFarmDelta_7, Lysidious_7, Malachai_7, Melba_7, Mellie_7, MintFen_7, Murp_7, Obliviate_7, PCoral7_7, PhrostedPhlake_7, Pipp_7, PrincePatrick_7, Samba_7, Stiles_7, Toast_7, UmaThurman_7, Utz_7, William_7, Wisp_7, Wocket_7, Zarbodnamra_7, ZiggyZoo_7,

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

- Arib1_7, Atcoo_7, Bartholomew_7, BigNuz_7, Bogie_7, Brusacoram_7, Bunnies_7, CactusJack_7, Camster_7, Donovan_7, Dynamo_7, FirstPlacePfu_7, Fishburne_7, Glaske_7, GreaseLightnin_7, HUHilltop_7, Jebeks_7, Jung_7, Juniormint_7, Kari_7, KilKor_7, Ksquared_7, Langerak_7, Majeke_7, Malithi_7, Mangethe_7, Megiddo_7, Nazo_7, Necropolis_7, Phalm_7, Phayonce_7, Phegasus_7, Phineas_7, Polkaroo_7, Purky_7, Pygmy_7, REQ2_07, Shipwreck_7, Sonah_7, StevieRay_7, StressBall_7, Techage_7, Thespis_7, ThulaThula_7, Tortellini_7, Venti_7, Vidya_7, Willsammy_7, Xavia_7, Zilizebeth_7,

Summary by start number:

Start 9:

- Found in 34 of 139 (24.5%) of genes in pham
- Manual Annotations of this start: 31 of 126
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Archis_7 (CV), Barco_7 (CV), Begonia_7 (CV), BlingBling_7 (CV), CaptainKirk2_7 (CV), Delian_7 (CV), Fairfaxidum_7 (CV), Fenry_7 (CV), Guacamole_7 (CV), Hitter_7 (CV), Jalammah_7 (CV), JasperJr_7 (CV), KappaFarmDelta_7 (CV), Lysidious_7 (CV), Malachai_7 (CV), Melba_7 (CV), Mellie_7 (CV), MintFen_7 (CV), Murp_7 (CV), Obliviate_7 (CV), PCoral7_7 (CV), PhrostedPhlake_7 (CV), Pipp_7 (CV), PrincePatrick_7 (CV), REQ2_07 (singleton), Samba_7 (CV), Toast_7 (CV), UmaThurman_7 (CV), Utz_7 (CV), William_7 (CV), Wisp_7 (CV), Wocket_7 (CV), Zarbodnamra_7 (CV), ZiggyZoo_7 (CV),

Start 12:

- Found in 1 of 139 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 126
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Stiles_7 (EP),

Start 17:

- Found in 60 of 139 (43.2%) of genes in pham
- Manual Annotations of this start: 1 of 126
- Called 1.7% of time when present
- Phage (with cluster) where this start called: Phineas_7 (P1),

Start 18:

- Found in 64 of 139 (46.0%) of genes in pham
- Manual Annotations of this start: 1 of 126
- Called 1.6% of time when present
- Phage (with cluster) where this start called: Beenie_8 (CZ4),

Start 19:

- Found in 89 of 139 (64.0%) of genes in pham
- Manual Annotations of this start: 48 of 126
- Called 59.6% 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), GEazy_7 (DB), GemG_7 (CZ2), Gizermo_7 (CZ2), Haley23_7 (CZ2), HannahD_7 (DB), Hedwig_8 (DB), Kiko_8 (DB), Lamberg_7 (CZ2), LordFarquaad_7 (CZ2), Matteo_7 (CZ2), MichaelScott_8 (CZ4), Mocha12_7 (CZ2), Nettuno_7 (CZ2), Oregano_8 (CZ4), PhriskyACE_7 (CZ4), Pickett_7 (CZ2), Powerball_7 (CZ4), 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), Vasanti_7 (CZ2), Whiteclaw_7 (CZ2), WinkNick_8 (CZ4), Yeet412_7 (CZ2),

Start 20:

- Found in 49 of 139 (35.3%) of genes in pham
- Manual Annotations of this start: 44 of 126
- Called 98.0% of time when present
- Phage (with cluster) where this start called: Arib1_7 (P1), Atcoo_7 (P1), Bartholomew_7 (P1), BigNuz_7 (P4), Bogie_7 (P1), Brusacoram_7 (P1), Bunnies_7 (P1), CactusJack_7 (P1), Camster_7 (P1), Donovan_7 (P1), Dynamo_7 (P1), FirstPlacePfu_7 (P1), Fishburne_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), Ksqared_7 (P1), Langerak_7 (P1), Majeke_7 (P1), Malithi_7 (P1), Mangethe_7 (P1), Megiddo_7 (P1), Nazo_7 (P4), Necropolis_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), Thespi_7 (P1), ThulaThula_7 (P5), Tortellini_7 (P2), Venti_7 (P1), Vidya_7 (P1), Willsammy_7 (P1), Xavia_7 (P3), Zilizebeth_7 (P1),

Start 21:

- Found in 54 of 139 (38.8%) of genes in pham
- No Manual Annotations of this start.
- Called 1.9% of time when present
- Phage (with cluster) where this start called: JCole_7 (CZ2),

Summary by clusters:

There are 13 clusters represented in this pham: P2, P3, singleton, P1, P6, P4, P5, CZ2, DB, CZ4, CZ5, CV, EP,

Info for manual annotations of cluster CV:

- Start number 9 was manually annotated 31 times for cluster CV.

Info for manual annotations of cluster CZ2:

- Start number 19 was manually annotated 22 times for cluster CZ2.

Info for manual annotations of cluster CZ4:

- Start number 18 was manually annotated 1 time for cluster CZ4.
- Start number 19 was manually annotated 13 times for cluster CZ4.

Info for manual annotations of cluster CZ5:

- Start number 19 was manually annotated 1 time for cluster CZ5.

Info for manual annotations of cluster DB:

- Start number 19 was manually annotated 11 times for cluster DB.

Info for manual annotations of cluster EP:

- Start number 12 was manually annotated 1 time for cluster EP.

Info for manual annotations of cluster P1:

- Start number 17 was manually annotated 1 time for cluster P1.
- Start number 20 was manually annotated 37 times for cluster P1.

Info for manual annotations of cluster P2:

- Start number 20 was manually annotated 1 time for cluster P2.

Info for manual annotations of cluster P3:

- Start number 20 was manually annotated 1 time for cluster P3.

Info for manual annotations of cluster P4:

- Start number 20 was manually annotated 2 times for cluster P4.

Info for manual annotations of cluster P5:

- Start number 20 was manually annotated 2 times for cluster P5.

Info for manual annotations of cluster P6:

- Start number 20 was manually annotated 1 time for cluster P6.

Gene Information:

Gene: Annalisa_8 Start: 6265, Stop: 6591, Start Num: 19

Candidate Starts for Annalisa_8:

(2, 5638), (5, 5806), (11, 6184), (Start: 18 @6244 has 1 MA's), (Start: 19 @6265 has 48 MA's), (21, 6277), (32, 6394), (46, 6502), (47, 6508),

Gene: Archis_7 Start: 6142, Stop: 6570, Start Num: 9

Candidate Starts for Archis_7:

(Start: 9 @6142 has 31 MA's), (16, 6217), (Start: 19 @6244 has 48 MA's), (22, 6268), (41, 6418), (46, 6481), (48, 6499),

Gene: Arib1_7 Start: 6243, Stop: 6590, Start Num: 20

Candidate Starts for Arib1_7:

(4, 5760), (6, 6045), (Start: 17 @6216 has 1 MA's), (Start: 18 @6219 has 1 MA's), (Start: 20 @6243 has 44 MA's), (32, 6372),

Gene: Atcoo_7 Start: 6226, Stop: 6576, Start Num: 20

Candidate Starts for Atcoo_7:

(Start: 17 @6199 has 1 MA's), (Start: 18 @6202 has 1 MA's), (Start: 20 @6226 has 44 MA's), (32, 6355),

Gene: Attis_7 Start: 5774, Stop: 6121, Start Num: 19

Candidate Starts for Attis_7:

(5, 5315), (11, 5693), (Start: 19 @5774 has 48 MA's), (21, 5786), (24, 5801), (25, 5804), (32, 5903), (33, 5906), (34, 5909), (49, 6062), (51, 6086),

Gene: BBQValindra_7 Start: 6114, Stop: 6488, Start Num: 19

Candidate Starts for BBQValindra_7:

(2, 5490), (5, 5658), (11, 6033), (13, 6045), (Start: 17 @6090 has 1 MA's), (Start: 19 @6114 has 48 MA's), (21, 6129),

Gene: BackstagePass_7 Start: 6091, Stop: 6465, Start Num: 19

Candidate Starts for BackstagePass_7:

(Start: 17 @6067 has 1 MA's), (Start: 19 @6091 has 48 MA's), (21, 6106),

Gene: Barco_7 Start: 6142, Stop: 6570, Start Num: 9

Candidate Starts for Barco_7:

(Start: 9 @6142 has 31 MA's), (16, 6217), (Start: 19 @6244 has 48 MA's), (22, 6268), (41, 6418), (43, 6451), (46, 6481), (48, 6499),

Gene: Bartholomew_7 Start: 6238, Stop: 6588, Start Num: 20

Candidate Starts for Bartholomew_7:

(Start: 17 @6211 has 1 MA's), (Start: 18 @6214 has 1 MA's), (Start: 20 @6238 has 44 MA's), (32, 6367),

Gene: Beenie_8 Start: 6244, Stop: 6585, Start Num: 18

Candidate Starts for Beenie_8:

(5, 5806), (11, 6184), (Start: 18 @6244 has 1 MA's), (Start: 19 @6265 has 48 MA's), (21, 6277), (32, 6394), (40, 6442), (47, 6502),

Gene: Begonia_7 Start: 6145, Stop: 6573, Start Num: 9

Candidate Starts for Begonia_7:

(Start: 9 @6145 has 31 MA's), (15, 6187), (16, 6220), (Start: 19 @6247 has 48 MA's), (41, 6421), (43, 6454), (46, 6484),

Gene: BigNuz_7 Start: 6216, Stop: 6557, Start Num: 20

Candidate Starts for BigNuz_7:

(6, 6018), (Start: 17 @6189 has 1 MA's), (Start: 18 @6192 has 1 MA's), (Start: 20 @6216 has 44 MA's), (32, 6345),

Gene: Bjaner7_7 Start: 5774, Stop: 6121, Start Num: 19

Candidate Starts for Bjaner7_7:

(5, 5315), (11, 5693), (Start: 19 @5774 has 48 MA's), (21, 5786), (24, 5801), (25, 5804), (32, 5903), (33, 5906), (34, 5909), (49, 6062), (51, 6086),

Gene: BlingBling_7 Start: 6142, Stop: 6570, Start Num: 9

Candidate Starts for BlingBling_7:

(Start: 9 @6142 has 31 MA's), (16, 6217), (Start: 19 @6244 has 48 MA's), (22, 6268), (41, 6418), (43, 6451), (46, 6481), (48, 6499),

Gene: Bogie_7 Start: 6226, Stop: 6576, Start Num: 20

Candidate Starts for Bogie_7:

(Start: 17 @6199 has 1 MA's), (Start: 18 @6202 has 1 MA's), (Start: 20 @6226 has 44 MA's), (32, 6355),

Gene: Bowser_7 Start: 6112, Stop: 6486, Start Num: 19

Candidate Starts for Bowser_7:

(Start: 17 @6088 has 1 MA's), (Start: 19 @6112 has 48 MA's), (21, 6127), (35, 6256),

Gene: Brusacoram_7 Start: 6225, Stop: 6575, Start Num: 20

Candidate Starts for Brusacoram_7:

(Start: 17 @6198 has 1 MA's), (Start: 18 @6201 has 1 MA's), (Start: 20 @6225 has 44 MA's), (32, 6354),

Gene: Bunker_7 Start: 6114, Stop: 6488, Start Num: 19

Candidate Starts for Bunker_7:

(2, 5490), (5, 5658), (11, 6033), (13, 6045), (Start: 17 @6090 has 1 MA's), (Start: 19 @6114 has 48 MA's), (21, 6129),

Gene: Bunnies_7 Start: 6238, Stop: 6588, Start Num: 20

Candidate Starts for Bunnies_7:

(Start: 17 @6211 has 1 MA's), (Start: 18 @6214 has 1 MA's), (Start: 20 @6238 has 44 MA's), (32, 6367),

Gene: CactusJack_7 Start: 6225, Stop: 6575, Start Num: 20

Candidate Starts for CactusJack_7:

(Start: 17 @6198 has 1 MA's), (Start: 18 @6201 has 1 MA's), (Start: 20 @6225 has 44 MA's), (32, 6354),

Gene: Camster_7 Start: 6238, Stop: 6588, Start Num: 20

Candidate Starts for Camster_7:

(Start: 17 @6211 has 1 MA's), (Start: 18 @6214 has 1 MA's), (Start: 20 @6238 has 44 MA's), (32, 6367),

Gene: CaptainKirk2_7 Start: 6142, Stop: 6570, Start Num: 9

Candidate Starts for CaptainKirk2_7:

(Start: 9 @6142 has 31 MA's), (16, 6217), (Start: 19 @6244 has 48 MA's), (22, 6268), (41, 6418), (43, 6451), (46, 6481), (48, 6499),

Gene: Clap_7 Start: 5774, Stop: 6121, Start Num: 19

Candidate Starts for Clap_7:

(11, 5693), (Start: 19 @5774 has 48 MA's), (21, 5786), (24, 5801), (25, 5804), (32, 5903), (33, 5906), (34, 5909), (49, 6062), (51, 6086),

Gene: Clark_8 Start: 6265, Stop: 6591, Start Num: 19

Candidate Starts for Clark_8:

(5, 5806), (11, 6184), (Start: 18 @6244 has 1 MA's), (Start: 19 @6265 has 48 MA's), (21, 6277), (32, 6394), (46, 6502), (47, 6508),

Gene: Coriander_8 Start: 6499, Stop: 6873, Start Num: 19

Candidate Starts for Coriander_8:

(11, 6418), (13, 6430), (Start: 17 @6475 has 1 MA's), (Start: 19 @6499 has 48 MA's), (23, 6523), (32, 6628), (47, 6784), (49, 6808),

Gene: Cynthia_7 Start: 5774, Stop: 6121, Start Num: 19

Candidate Starts for Cynthia_7:

(11, 5693), (Start: 19 @5774 has 48 MA's), (21, 5786), (24, 5801), (25, 5804), (32, 5903), (33, 5906), (34, 5909), (49, 6062), (51, 6086),

Gene: Delian_7 Start: 6142, Stop: 6570, Start Num: 9

Candidate Starts for Delian_7:

(Start: 9 @6142 has 31 MA's), (16, 6217), (Start: 19 @6244 has 48 MA's), (22, 6268), (41, 6418), (43, 6451), (46, 6481), (48, 6499),

Gene: Denise_7 Start: 5783, Stop: 6130, Start Num: 19

Candidate Starts for Denise_7:

(11, 5702), (Start: 19 @5783 has 48 MA's), (21, 5795), (24, 5810), (25, 5813), (32, 5912), (33, 5915), (34, 5918), (49, 6071), (51, 6095),

Gene: DirtyBoi_8 Start: 6478, Stop: 6846, Start Num: 19

Candidate Starts for DirtyBoi_8:

(2, 5854), (5, 6022), (Start: 17 @6454 has 1 MA's), (Start: 19 @6478 has 48 MA's), (21, 6490), (45, 6724), (47, 6757), (49, 6781),

Gene: Dmitri_8 Start: 6478, Stop: 6855, Start Num: 19

Candidate Starts for Dmitri_8:

(2, 5854), (5, 6022), (Start: 17 @6454 has 1 MA's), (Start: 19 @6478 has 48 MA's), (21, 6490), (33, 6610), (45, 6733), (47, 6766), (49, 6790),

Gene: DobbysSock_7 Start: 5763, Stop: 6083, Start Num: 19

Candidate Starts for DobbysSock_7:

(5, 5304), (11, 5682), (Start: 18 @5742 has 1 MA's), (Start: 19 @5763 has 48 MA's), (21, 5775), (32, 5892), (40, 5940), (46, 5994), (47, 6000),

Gene: Doggs_7 Start: 6196, Stop: 6570, Start Num: 19

Candidate Starts for Doggs_7:

(11, 6115), (13, 6127), (Start: 17 @6172 has 1 MA's), (Start: 19 @6196 has 48 MA's), (23, 6220), (32, 6325), (47, 6481), (49, 6505),

Gene: Dolores_8 Start: 6265, Stop: 6585, Start Num: 19

Candidate Starts for Dolores_8:

(5, 5806), (11, 6184), (Start: 18 @6244 has 1 MA's), (Start: 19 @6265 has 48 MA's), (21, 6277), (32, 6394), (40, 6442), (46, 6496), (47, 6502),

Gene: Donovan_7 Start: 6243, Stop: 6590, Start Num: 20

Candidate Starts for Donovan_7:

(4, 5760), (6, 6045), (Start: 17 @6216 has 1 MA's), (Start: 18 @6219 has 1 MA's), (Start: 20 @6243 has 44 MA's), (32, 6372),

Gene: Dorito_7 Start: 5763, Stop: 6089, Start Num: 19

Candidate Starts for Dorito_7:

(5, 5304), (11, 5682), (Start: 18 @5742 has 1 MA's), (Start: 19 @5763 has 48 MA's), (21, 5775), (32, 5892), (46, 6000), (47, 6006),

Gene: Dynamo_7 Start: 6238, Stop: 6588, Start Num: 20

Candidate Starts for Dynamo_7:

(Start: 17 @6211 has 1 MA's), (Start: 18 @6214 has 1 MA's), (Start: 20 @6238 has 44 MA's), (32, 6367),

Gene: Easley_8 Start: 6265, Stop: 6585, Start Num: 19

Candidate Starts for Easley_8:

(5, 5806), (11, 6184), (Start: 18 @6244 has 1 MA's), (Start: 19 @6265 has 48 MA's), (21, 6277), (32, 6394), (40, 6442), (47, 6502),

Gene: Ebert_7 Start: 5774, Stop: 6121, Start Num: 19

Candidate Starts for Ebert_7:

(11, 5693), (Start: 19 @5774 has 48 MA's), (21, 5786), (24, 5801), (25, 5804), (32, 5903), (33, 5906), (34, 5909), (49, 6062), (51, 6086),

Gene: EdnaMode_7 Start: 5774, Stop: 6121, Start Num: 19

Candidate Starts for EdnaMode_7:

(11, 5693), (Start: 19 @5774 has 48 MA's), (21, 5786), (24, 5801), (25, 5804), (32, 5903), (33, 5906), (34, 5909), (49, 6062), (51, 6086),

Gene: Eyes_7 Start: 6121, Stop: 6495, Start Num: 19

Candidate Starts for Eyes_7:

(5, 5665), (11, 6040), (13, 6052), (Start: 17 @6097 has 1 MA's), (Start: 19 @6121 has 48 MA's), (21, 6136), (35, 6265),

Gene: Fairfaxidum_7 Start: 6141, Stop: 6554, Start Num: 9

Candidate Starts for Fairfaxidum_7:

(8, 6114), (Start: 9 @6141 has 31 MA's), (16, 6216), (Start: 19 @6243 has 48 MA's), (22, 6267), (26, 6303), (29, 6327), (36, 6354), (37, 6357),

Gene: Fenry_7 Start: 6145, Stop: 6579, Start Num: 9

Candidate Starts for Fenry_7:

(Start: 9 @6145 has 31 MA's), (16, 6220), (Start: 19 @6247 has 48 MA's), (22, 6271), (41, 6427), (46, 6490),

Gene: Finkle_7 Start: 5910, Stop: 6254, Start Num: 19

Candidate Starts for Finkle_7:

(Start: 19 @5910 has 48 MA's), (24, 5937), (32, 6036),

Gene: FirstPlacePfu_7 Start: 6238, Stop: 6588, Start Num: 20

Candidate Starts for FirstPlacePfu_7:

(Start: 17 @6211 has 1 MA's), (Start: 18 @6214 has 1 MA's), (Start: 20 @6238 has 44 MA's), (32, 6367),

Gene: Fishburne_7 Start: 6238, Stop: 6588, Start Num: 20

Candidate Starts for Fishburne_7:

(Start: 17 @6211 has 1 MA's), (Start: 18 @6214 has 1 MA's), (Start: 20 @6238 has 44 MA's), (32, 6367),

Gene: GEazy_7 Start: 6123, Stop: 6497, Start Num: 19

Candidate Starts for GEazy_7:

(11, 6042), (13, 6054), (Start: 17 @6099 has 1 MA's), (Start: 19 @6123 has 48 MA's), (21, 6138),

Gene: GemG_7 Start: 5774, Stop: 6121, Start Num: 19

Candidate Starts for GemG_7:

(11, 5693), (Start: 19 @5774 has 48 MA's), (21, 5786), (24, 5801), (25, 5804), (32, 5903), (33, 5906), (34, 5909), (49, 6062), (51, 6086),

Gene: Gizermo_7 Start: 5774, Stop: 6121, Start Num: 19

Candidate Starts for Gizermo_7:

(11, 5693), (Start: 19 @5774 has 48 MA's), (21, 5786), (24, 5801), (25, 5804), (32, 5903), (33, 5906), (34, 5909), (49, 6062), (51, 6086),

Gene: Glaske_7 Start: 6225, Stop: 6575, Start Num: 20

Candidate Starts for Glaske_7:

(Start: 17 @6198 has 1 MA's), (Start: 18 @6201 has 1 MA's), (Start: 20 @6225 has 44 MA's), (32, 6354),

Gene: GreaseLightnin_7 Start: 6238, Stop: 6588, Start Num: 20

Candidate Starts for GreaseLightnin_7:

(Start: 17 @6211 has 1 MA's), (Start: 18 @6214 has 1 MA's), (Start: 20 @6238 has 44 MA's), (32, 6367),

Gene: Guacamole_7 Start: 6146, Stop: 6574, Start Num: 9

Candidate Starts for Guacamole_7:

(Start: 9 @6146 has 31 MA's), (16, 6221), (Start: 19 @6248 has 48 MA's), (22, 6272), (41, 6422), (43, 6455), (46, 6485), (48, 6503),

Gene: HUHilltop_7 Start: 6238, Stop: 6588, Start Num: 20

Candidate Starts for HUHilltop_7:

(Start: 17 @6211 has 1 MA's), (Start: 18 @6214 has 1 MA's), (Start: 20 @6238 has 44 MA's), (32, 6367),

Gene: Haley23_7 Start: 5774, Stop: 6121, Start Num: 19

Candidate Starts for Haley23_7:

(11, 5693), (Start: 19 @5774 has 48 MA's), (21, 5786), (24, 5801), (25, 5804), (32, 5903), (33, 5906), (34, 5909), (49, 6062), (51, 6086),

Gene: HannahD_7 Start: 6123, Stop: 6497, Start Num: 19

Candidate Starts for HannahD_7:

(11, 6042), (13, 6054), (Start: 17 @6099 has 1 MA's), (Start: 19 @6123 has 48 MA's), (21, 6138),

Gene: Hedwig_8 Start: 6478, Stop: 6846, Start Num: 19

Candidate Starts for Hedwig_8:

(2, 5854), (5, 6022), (Start: 17 @6454 has 1 MA's), (Start: 19 @6478 has 48 MA's), (21, 6490), (45, 6724), (47, 6757), (49, 6781),

Gene: Hitter_7 Start: 6142, Stop: 6570, Start Num: 9

Candidate Starts for Hitter_7:

(Start: 9 @6142 has 31 MA's), (16, 6217), (Start: 19 @6244 has 48 MA's), (22, 6268), (41, 6418), (46, 6481), (48, 6499),

Gene: JCole_7 Start: 5786, Stop: 6121, Start Num: 21

Candidate Starts for JCole_7:

(11, 5693), (Start: 19 @5774 has 48 MA's), (21, 5786), (24, 5801), (25, 5804), (32, 5903), (33, 5906), (34, 5909), (49, 6062), (51, 6086),

Gene: Jalammah_7 Start: 6142, Stop: 6570, Start Num: 9

Candidate Starts for Jalammah_7:

(Start: 9 @6142 has 31 MA's), (16, 6217), (Start: 19 @6244 has 48 MA's), (22, 6268), (41, 6418), (46, 6481), (48, 6499),

Gene: JasperJr_7 Start: 6146, Stop: 6574, Start Num: 9

Candidate Starts for JasperJr_7:

(Start: 9 @6146 has 31 MA's), (16, 6221), (Start: 19 @6248 has 48 MA's), (22, 6272), (41, 6422), (43, 6455), (46, 6485), (48, 6503),

Gene: Jebeks_7 Start: 6243, Stop: 6590, Start Num: 20

Candidate Starts for Jebeks_7:

(4, 5760), (6, 6045), (Start: 17 @6216 has 1 MA's), (Start: 18 @6219 has 1 MA's), (Start: 20 @6243 has 44 MA's), (32, 6372),

Gene: Jung_7 Start: 6225, Stop: 6575, Start Num: 20

Candidate Starts for Jung_7:

(Start: 17 @6198 has 1 MA's), (Start: 18 @6201 has 1 MA's), (Start: 20 @6225 has 44 MA's), (32, 6354),

Gene: Juniormint_7 Start: 6246, Stop: 6593, Start Num: 20

Candidate Starts for Juniormint_7:

(4, 5763), (6, 6048), (Start: 17 @6219 has 1 MA's), (Start: 18 @6222 has 1 MA's), (Start: 20 @6246 has 44 MA's), (32, 6375),

Gene: KappaFarmDelta_7 Start: 6123, Stop: 6608, Start Num: 9

Candidate Starts for KappaFarmDelta_7:

(8, 6099), (Start: 9 @6123 has 31 MA's), (14, 6162), (16, 6198), (Start: 19 @6225 has 48 MA's), (22, 6249), (25, 6261), (28, 6315), (30, 6321), (32, 6354), (41, 6456), (46, 6519), (48, 6537),

Gene: Kari_7 Start: 6238, Stop: 6588, Start Num: 20

Candidate Starts for Kari_7:

(Start: 17 @6211 has 1 MA's), (Start: 18 @6214 has 1 MA's), (Start: 20 @6238 has 44 MA's), (32, 6367),

Gene: Kiko_8 Start: 6339, Stop: 6689, Start Num: 19

Candidate Starts for Kiko_8:

(11, 6258), (Start: 17 @6315 has 1 MA's), (Start: 19 @6339 has 48 MA's), (21, 6351), (44, 6567), (47, 6600), (49, 6624),

Gene: KilKor_7 Start: 6225, Stop: 6575, Start Num: 20

Candidate Starts for KilKor_7:

(Start: 17 @6198 has 1 MA's), (Start: 18 @6201 has 1 MA's), (Start: 20 @6225 has 44 MA's), (32, 6354),

Gene: Ksquared_7 Start: 6238, Stop: 6588, Start Num: 20

Candidate Starts for Ksquared_7:

(Start: 17 @6211 has 1 MA's), (Start: 18 @6214 has 1 MA's), (Start: 20 @6238 has 44 MA's), (32, 6367),

Gene: Lamberg_7 Start: 5774, Stop: 6121, Start Num: 19

Candidate Starts for Lamberg_7:

(11, 5693), (Start: 19 @5774 has 48 MA's), (21, 5786), (24, 5801), (25, 5804), (32, 5903), (33, 5906), (34, 5909), (49, 6062), (51, 6086),

Gene: Langerak_7 Start: 6243, Stop: 6590, Start Num: 20

Candidate Starts for Langerak_7:

(4, 5760), (6, 6045), (Start: 17 @6216 has 1 MA's), (Start: 18 @6219 has 1 MA's), (Start: 20 @6243 has 44 MA's), (32, 6372),

Gene: LordFarquaad_7 Start: 5774, Stop: 6121, Start Num: 19

Candidate Starts for LordFarquaad_7:

(5, 5315), (11, 5693), (Start: 19 @5774 has 48 MA's), (21, 5786), (24, 5801), (25, 5804), (32, 5903), (33, 5906), (34, 5909), (49, 6062), (51, 6086),

Gene: Lysidious_7 Start: 6142, Stop: 6570, Start Num: 9

Candidate Starts for Lysidious_7:

(Start: 9 @6142 has 31 MA's), (16, 6217), (Start: 19 @6244 has 48 MA's), (22, 6268), (41, 6418), (43, 6451), (46, 6481), (48, 6499),

Gene: Majeke_7 Start: 6243, Stop: 6590, Start Num: 20

Candidate Starts for Majeke_7:

(4, 5760), (6, 6045), (Start: 17 @6216 has 1 MA's), (Start: 18 @6219 has 1 MA's), (Start: 20 @6243 has 44 MA's), (32, 6372),

Gene: Malachai_7 Start: 6145, Stop: 6573, Start Num: 9

Candidate Starts for Malachai_7:

(Start: 9 @6145 has 31 MA's), (15, 6187), (16, 6220), (Start: 19 @6247 has 48 MA's), (41, 6421), (43, 6454), (46, 6484),

Gene: Malithi_7 Start: 6238, Stop: 6588, Start Num: 20

Candidate Starts for Malithi_7:

(Start: 17 @6211 has 1 MA's), (Start: 18 @6214 has 1 MA's), (Start: 20 @6238 has 44 MA's), (32, 6367),

Gene: Mangethe_7 Start: 6243, Stop: 6590, Start Num: 20

Candidate Starts for Mangethe_7:

(4, 5760), (6, 6045), (Start: 17 @6216 has 1 MA's), (Start: 18 @6219 has 1 MA's), (Start: 20 @6243 has 44 MA's), (32, 6372),

Gene: Matteo_7 Start: 5774, Stop: 6121, Start Num: 19

Candidate Starts for Matteo_7:

(5, 5315), (11, 5693), (Start: 19 @5774 has 48 MA's), (21, 5786), (24, 5801), (25, 5804), (32, 5903), (33, 5906), (34, 5909), (49, 6062), (51, 6086),

Gene: Megiddo_7 Start: 6225, Stop: 6575, Start Num: 20

Candidate Starts for Megiddo_7:

(Start: 17 @6198 has 1 MA's), (Start: 18 @6201 has 1 MA's), (Start: 20 @6225 has 44 MA's), (32, 6354),

Gene: Melba_7 Start: 6142, Stop: 6570, Start Num: 9

Candidate Starts for Melba_7:

(Start: 9 @6142 has 31 MA's), (16, 6217), (Start: 19 @6244 has 48 MA's), (22, 6268), (41, 6418), (43, 6451), (46, 6481), (48, 6499),

Gene: Mellie_7 Start: 6142, Stop: 6570, Start Num: 9

Candidate Starts for Mellie_7:

(Start: 9 @6142 has 31 MA's), (16, 6217), (Start: 19 @6244 has 48 MA's), (22, 6268), (41, 6418), (46, 6481), (48, 6499),

Gene: MichaelScott_8 Start: 6265, Stop: 6585, Start Num: 19

Candidate Starts for MichaelScott_8:

(5, 5806), (11, 6184), (Start: 18 @6244 has 1 MA's), (Start: 19 @6265 has 48 MA's), (21, 6277), (32, 6394), (40, 6442), (47, 6502),

Gene: MintFen_7 Start: 6142, Stop: 6570, Start Num: 9

Candidate Starts for MintFen_7:

(Start: 9 @6142 has 31 MA's), (16, 6217), (Start: 19 @6244 has 48 MA's), (22, 6268), (41, 6418), (43, 6451), (46, 6481), (48, 6499),

Gene: Mocha12_7 Start: 5774, Stop: 6121, Start Num: 19

Candidate Starts for Mocha12_7:

(11, 5693), (Start: 19 @5774 has 48 MA's), (21, 5786), (24, 5801), (25, 5804), (32, 5903), (33, 5906), (34, 5909), (49, 6062), (51, 6086),

Gene: Murp_7 Start: 6126, Stop: 6611, Start Num: 9

Candidate Starts for Murp_7:

(8, 6102), (Start: 9 @6126 has 31 MA's), (14, 6165), (16, 6201), (Start: 19 @6228 has 48 MA's), (22, 6252), (25, 6264), (28, 6318), (30, 6324), (32, 6357), (41, 6459), (46, 6522), (48, 6540),

Gene: Nazo_7 Start: 6216, Stop: 6557, Start Num: 20

Candidate Starts for Nazo_7:

(6, 6018), (Start: 17 @6189 has 1 MA's), (Start: 18 @6192 has 1 MA's), (Start: 20 @6216 has 44 MA's), (32, 6345),

Gene: Necropolis_7 Start: 6238, Stop: 6588, Start Num: 20

Candidate Starts for Necropolis_7:

(Start: 17 @6211 has 1 MA's), (Start: 18 @6214 has 1 MA's), (Start: 20 @6238 has 44 MA's), (32, 6367),

Gene: Nettuno_7 Start: 5774, Stop: 6121, Start Num: 19

Candidate Starts for Nettuno_7:

(11, 5693), (Start: 19 @5774 has 48 MA's), (21, 5786), (24, 5801), (25, 5804), (32, 5903), (33, 5906), (34, 5909), (49, 6062), (51, 6086),

Gene: Obliviate_7 Start: 6166, Stop: 6594, Start Num: 9

Candidate Starts for Obliviate_7:

(Start: 9 @6166 has 31 MA's), (16, 6241), (Start: 19 @6268 has 48 MA's), (41, 6442), (43, 6475), (46, 6505), (48, 6523),

Gene: Oregano_8 Start: 5936, Stop: 6256, Start Num: 19

Candidate Starts for Oregano_8:

(5, 5477), (11, 5855), (Start: 18 @5915 has 1 MA's), (Start: 19 @5936 has 48 MA's), (21, 5948), (32, 6065), (40, 6113), (46, 6167), (47, 6173),

Gene: PCoral7_7 Start: 6141, Stop: 6554, Start Num: 9

Candidate Starts for PCoral7_7:

(8, 6114), (Start: 9 @6141 has 31 MA's), (16, 6216), (Start: 19 @6243 has 48 MA's), (22, 6267), (29, 6327), (36, 6354), (37, 6357),

Gene: Phalm_7 Start: 6225, Stop: 6575, Start Num: 20

Candidate Starts for Phalm_7:

(Start: 17 @6198 has 1 MA's), (Start: 18 @6201 has 1 MA's), (Start: 20 @6225 has 44 MA's), (32, 6354),

Gene: Phayonce_7 Start: 6224, Stop: 6577, Start Num: 20

Candidate Starts for Phayonce_7:

(11, 6140), (Start: 18 @6200 has 1 MA's), (Start: 20 @6224 has 44 MA's), (21, 6239), (32, 6356),

Gene: Phegasus_7 Start: 6243, Stop: 6590, Start Num: 20

Candidate Starts for Phegasus_7:

(4, 5760), (6, 6045), (Start: 17 @6216 has 1 MA's), (Start: 18 @6219 has 1 MA's), (Start: 20 @6243 has 44 MA's), (32, 6372),

Gene: Phineas_7 Start: 6199, Stop: 6576, Start Num: 17

Candidate Starts for Phineas_7:

(Start: 17 @6199 has 1 MA's), (Start: 18 @6202 has 1 MA's), (Start: 20 @6226 has 44 MA's), (32, 6355),

Gene: PhriskyACE_7 Start: 5763, Stop: 6089, Start Num: 19

Candidate Starts for PhriskyACE_7:

(5, 5304), (11, 5682), (Start: 18 @5742 has 1 MA's), (Start: 19 @5763 has 48 MA's), (21, 5775), (32, 5892), (46, 6000), (47, 6006),

Gene: PhrostedPhlake_7 Start: 6160, Stop: 6651, Start Num: 9

Candidate Starts for PhrostedPhlake_7:

(Start: 9 @6160 has 31 MA's), (14, 6199), (16, 6235), (Start: 19 @6262 has 48 MA's), (22, 6286), (28, 6352), (30, 6358), (32, 6397), (41, 6499), (43, 6532), (46, 6562),

Gene: Pickett_7 Start: 5774, Stop: 6121, Start Num: 19

Candidate Starts for Pickett_7:

(5, 5315), (11, 5693), (Start: 19 @5774 has 48 MA's), (21, 5786), (24, 5801), (25, 5804), (32, 5903), (33, 5906), (34, 5909), (49, 6062), (51, 6086),

Gene: Pipp_7 Start: 6166, Stop: 6594, Start Num: 9

Candidate Starts for Pipp_7:

(Start: 9 @6166 has 31 MA's), (16, 6241), (Start: 19 @6268 has 48 MA's), (22, 6292), (29, 6349), (41, 6442),

Gene: Polkaroo_7 Start: 6238, Stop: 6588, Start Num: 20

Candidate Starts for Polkaroo_7:

(Start: 17 @6211 has 1 MA's), (Start: 18 @6214 has 1 MA's), (Start: 20 @6238 has 44 MA's), (32, 6367),

Gene: Powerball_7 Start: 5763, Stop: 6089, Start Num: 19

Candidate Starts for Powerball_7:

(11, 5682), (Start: 17 @5739 has 1 MA's), (Start: 19 @5763 has 48 MA's), (21, 5775), (28, 5844), (32, 5892), (46, 6000), (47, 6006),

Gene: PrincePatrick_7 Start: 6142, Stop: 6555, Start Num: 9

Candidate Starts for PrincePatrick_7:

(8, 6115), (Start: 9 @6142 has 31 MA's), (16, 6217), (Start: 19 @6244 has 48 MA's), (22, 6268), (26, 6304), (29, 6328), (36, 6355), (37, 6358),

Gene: Purky_7 Start: 6215, Stop: 6592, Start Num: 20

Candidate Starts for Purky_7:

(11, 6131), (Start: 18 @6191 has 1 MA's), (Start: 20 @6215 has 44 MA's), (32, 6344), (45, 6476), (47, 6509),

Gene: Pygmy_7 Start: 6226, Stop: 6576, Start Num: 20

Candidate Starts for Pygmy_7:

(Start: 17 @6199 has 1 MA's), (Start: 18 @6202 has 1 MA's), (Start: 20 @6226 has 44 MA's), (32, 6355),

Gene: REQ2_07 Start: 5849, Stop: 6256, Start Num: 9

Candidate Starts for REQ2_07:

(8, 5825), (Start: 9 @5849 has 31 MA's), (10, 5861), (50, 6194), (51, 6203),

Gene: Sahara_7 Start: 5765, Stop: 6136, Start Num: 19

Candidate Starts for Sahara_7:

(5, 5306), (11, 5684), (Start: 19 @5765 has 48 MA's), (21, 5777), (24, 5792), (25, 5795), (32, 5894), (33, 5897), (34, 5900),

Gene: Samba_7 Start: 6143, Stop: 6571, Start Num: 9

Candidate Starts for Samba_7:

(Start: 9 @6143 has 31 MA's), (16, 6218), (Start: 19 @6245 has 48 MA's), (22, 6269), (41, 6419), (46, 6482), (48, 6500),

Gene: Samman98_8 Start: 6265, Stop: 6585, Start Num: 19

Candidate Starts for Samman98_8:

(5, 5806), (11, 6184), (Start: 18 @6244 has 1 MA's), (Start: 19 @6265 has 48 MA's), (21, 6277), (32, 6394), (40, 6442), (46, 6496), (47, 6502),

Gene: Savage_7 Start: 5774, Stop: 6121, Start Num: 19

Candidate Starts for Savage_7:

(11, 5693), (Start: 19 @5774 has 48 MA's), (21, 5786), (24, 5801), (25, 5804), (32, 5903), (33, 5906), (34, 5909), (49, 6062), (51, 6086),

Gene: Sekhmet_8 Start: 6265, Stop: 6585, Start Num: 19

Candidate Starts for Sekhmet_8:

(5, 5806), (11, 6184), (Start: 18 @6244 has 1 MA's), (Start: 19 @6265 has 48 MA's), (21, 6277), (32, 6394), (40, 6442), (46, 6496), (47, 6502),

Gene: Shipwreck_7 Start: 6226, Stop: 6576, Start Num: 20

Candidate Starts for Shipwreck_7:

(Start: 17 @6199 has 1 MA's), (Start: 18 @6202 has 1 MA's), (Start: 20 @6226 has 44 MA's), (32, 6355),

Gene: SoilAssassin_7 Start: 5774, Stop: 6121, Start Num: 19

Candidate Starts for SoilAssassin_7:

(5, 5315), (11, 5693), (Start: 19 @5774 has 48 MA's), (21, 5786), (24, 5801), (25, 5804), (32, 5903), (33, 5906), (34, 5909), (49, 6062), (51, 6086),

Gene: Sonah_7 Start: 6243, Stop: 6590, Start Num: 20

Candidate Starts for Sonah_7:

(4, 5760), (6, 6045), (Start: 17 @6216 has 1 MA's), (Start: 18 @6219 has 1 MA's), (Start: 20 @6243 has 44 MA's), (32, 6372),

Gene: Sproutie_7 Start: 5774, Stop: 6121, Start Num: 19

Candidate Starts for Sproutie_7:

(11, 5693), (Start: 19 @5774 has 48 MA's), (21, 5786), (24, 5801), (25, 5804), (32, 5903), (33, 5906), (34, 5909), (49, 6062), (51, 6086),

Gene: StevieRay_7 Start: 6229, Stop: 6579, Start Num: 20

Candidate Starts for StevieRay_7:

(Start: 17 @6202 has 1 MA's), (Start: 18 @6205 has 1 MA's), (Start: 20 @6229 has 44 MA's), (32, 6358),

Gene: Stiles_7 Start: 6055, Stop: 6417, Start Num: 12

Candidate Starts for Stiles_7:

(Start: 12 @6055 has 1 MA's), (Start: 17 @6109 has 1 MA's), (Start: 19 @6133 has 48 MA's), (25, 6166), (39, 6241), (49, 6352),

Gene: StressBall_7 Start: 6225, Stop: 6575, Start Num: 20

Candidate Starts for StressBall_7:

(Start: 17 @6198 has 1 MA's), (Start: 18 @6201 has 1 MA's), (Start: 20 @6225 has 44 MA's), (32, 6354),

Gene: Suerte_7 Start: 5763, Stop: 6083, Start Num: 19

Candidate Starts for Suerte_7:

(5, 5304), (11, 5682), (Start: 18 @5742 has 1 MA's), (Start: 19 @5763 has 48 MA's), (21, 5775), (32, 5892), (40, 5940), (46, 5994), (47, 6000),

Gene: Techage_7 Start: 6246, Stop: 6593, Start Num: 20

Candidate Starts for Techage_7:

(4, 5763), (6, 6048), (Start: 17 @6219 has 1 MA's), (Start: 18 @6222 has 1 MA's), (Start: 20 @6246 has 44 MA's), (32, 6375),

Gene: Thespis_7 Start: 6225, Stop: 6575, Start Num: 20

Candidate Starts for Thespis_7:

(Start: 17 @6198 has 1 MA's), (Start: 18 @6201 has 1 MA's), (Start: 20 @6225 has 44 MA's), (32, 6354),

Gene: Thimann_8 Start: 6265, Stop: 6585, Start Num: 19

Candidate Starts for Thimann_8:

(5, 5806), (11, 6184), (Start: 18 @6244 has 1 MA's), (Start: 19 @6265 has 48 MA's), (21, 6277), (32, 6394), (40, 6442), (46, 6496), (47, 6502),

Gene: ThulaThula_7 Start: 6269, Stop: 6622, Start Num: 20

Candidate Starts for ThulaThula_7:

(11, 6185), (Start: 18 @6245 has 1 MA's), (Start: 20 @6269 has 44 MA's), (21, 6284), (32, 6401),

Gene: Toast_7 Start: 6141, Stop: 6554, Start Num: 9

Candidate Starts for Toast_7:

(8, 6114), (Start: 9 @6141 has 31 MA's), (16, 6216), (Start: 19 @6243 has 48 MA's), (22, 6267), (29, 6327), (36, 6354), (37, 6357),

Gene: Tortellini_7 Start: 6196, Stop: 6534, Start Num: 20

Candidate Starts for Tortellini_7:

(11, 6112), (Start: 18 @6172 has 1 MA's), (Start: 20 @6196 has 44 MA's), (32, 6325), (38, 6367), (45, 6418), (47, 6451),

Gene: TuertoX_7 Start: 5774, Stop: 6121, Start Num: 19

Candidate Starts for TuertoX_7:

(11, 5693), (Start: 19 @5774 has 48 MA's), (21, 5786), (24, 5801), (25, 5804), (32, 5903), (33, 5906), (34, 5909), (49, 6062), (51, 6086),

Gene: UmaThurman_7 Start: 6142, Stop: 6570, Start Num: 9

Candidate Starts for UmaThurman_7:

(Start: 9 @6142 has 31 MA's), (16, 6217), (Start: 19 @6244 has 48 MA's), (22, 6268), (41, 6418), (46, 6481), (48, 6499),

Gene: Utz_7 Start: 6142, Stop: 6570, Start Num: 9

Candidate Starts for Utz_7:

(Start: 9 @6142 has 31 MA's), (16, 6217), (Start: 19 @6244 has 48 MA's), (22, 6268), (41, 6418), (43, 6451), (46, 6481), (48, 6499),

Gene: Vasanti_7 Start: 5775, Stop: 6125, Start Num: 19

Candidate Starts for Vasanti_7:

(2, 5148), (5, 5316), (11, 5694), (Start: 19 @5775 has 48 MA's), (21, 5787), (24, 5802), (25, 5805), (32, 5904), (33, 5907), (34, 5910), (42, 5985), (49, 6066), (51, 6090),

Gene: Venti_7 Start: 6238, Stop: 6588, Start Num: 20

Candidate Starts for Venti_7:

(Start: 17 @6211 has 1 MA's), (Start: 18 @6214 has 1 MA's), (Start: 20 @6238 has 44 MA's), (32, 6367),

Gene: Vidya_7 Start: 6238, Stop: 6588, Start Num: 20

Candidate Starts for Vidya_7:

(Start: 17 @6211 has 1 MA's), (Start: 18 @6214 has 1 MA's), (Start: 20 @6238 has 44 MA's), (32, 6367),

Gene: Whiteclaw_7 Start: 5774, Stop: 6121, Start Num: 19

Candidate Starts for Whiteclaw_7:

(11, 5693), (Start: 19 @5774 has 48 MA's), (21, 5786), (24, 5801), (25, 5804), (32, 5903), (33, 5906), (34, 5909), (49, 6062), (51, 6086),

Gene: William_7 Start: 6141, Stop: 6569, Start Num: 9

Candidate Starts for William_7:

(8, 6114), (Start: 9 @6141 has 31 MA's), (16, 6216), (Start: 19 @6243 has 48 MA's), (22, 6267), (29, 6327), (36, 6369), (37, 6372),

Gene: Willsammy_7 Start: 6228, Stop: 6578, Start Num: 20

Candidate Starts for Willsammy_7:

(Start: 17 @6201 has 1 MA's), (Start: 18 @6204 has 1 MA's), (Start: 20 @6228 has 44 MA's), (32, 6357),

Gene: WinkNick_8 Start: 6265, Stop: 6585, Start Num: 19

Candidate Starts for WinkNick_8:

(5, 5806), (11, 6184), (Start: 18 @6244 has 1 MA's), (Start: 19 @6265 has 48 MA's), (21, 6277), (32, 6394), (40, 6442), (46, 6496), (47, 6502),

Gene: Wisp_7 Start: 6142, Stop: 6570, Start Num: 9

Candidate Starts for Wisp_7:

(Start: 9 @6142 has 31 MA's), (16, 6217), (Start: 19 @6244 has 48 MA's), (22, 6268), (41, 6418), (43, 6451), (46, 6481), (48, 6499),

Gene: Wocket_7 Start: 6129, Stop: 6635, Start Num: 9

Candidate Starts for Wocket_7:

(1, 5271), (3, 5652), (7, 6045), (8, 6105), (Start: 9 @6129 has 31 MA's), (14, 6168), (16, 6204), (Start: 19 @6231 has 48 MA's), (22, 6255), (27, 6312), (31, 6351), (41, 6483), (46, 6546), (48, 6564),

Gene: Xavia_7 Start: 6240, Stop: 6590, Start Num: 20

Candidate Starts for Xavia_7:

(Start: 17 @6213 has 1 MA's), (Start: 18 @6216 has 1 MA's), (Start: 20 @6240 has 44 MA's), (32, 6369),

Gene: Yeet412_7 Start: 5774, Stop: 6121, Start Num: 19

Candidate Starts for Yeet412_7:

(5, 5315), (11, 5693), (Start: 19 @5774 has 48 MA's), (21, 5786), (24, 5801), (25, 5804), (32, 5903), (33, 5906), (34, 5909), (49, 6062), (51, 6086),

Gene: Zarbodnamra_7 Start: 6141, Stop: 6569, Start Num: 9

Candidate Starts for Zarbodnamra_7:

(Start: 9 @6141 has 31 MA's), (16, 6216), (Start: 19 @6243 has 48 MA's), (22, 6267), (41, 6417), (43, 6450), (46, 6480), (48, 6498),

Gene: ZiggyZoo_7 Start: 6166, Stop: 6594, Start Num: 9

Candidate Starts for ZiggyZoo_7:

(Start: 9 @6166 has 31 MA's), (16, 6241), (Start: 19 @6268 has 48 MA's), (41, 6442), (43, 6475), (46, 6505), (48, 6523),

Gene: Zilizebeth_7 Start: 6238, Stop: 6588, Start Num: 20

Candidate Starts for Zilizebeth_7:

(Start: 17 @6211 has 1 MA's), (Start: 18 @6214 has 1 MA's), (Start: 20 @6238 has 44 MA's), (32, 6367),