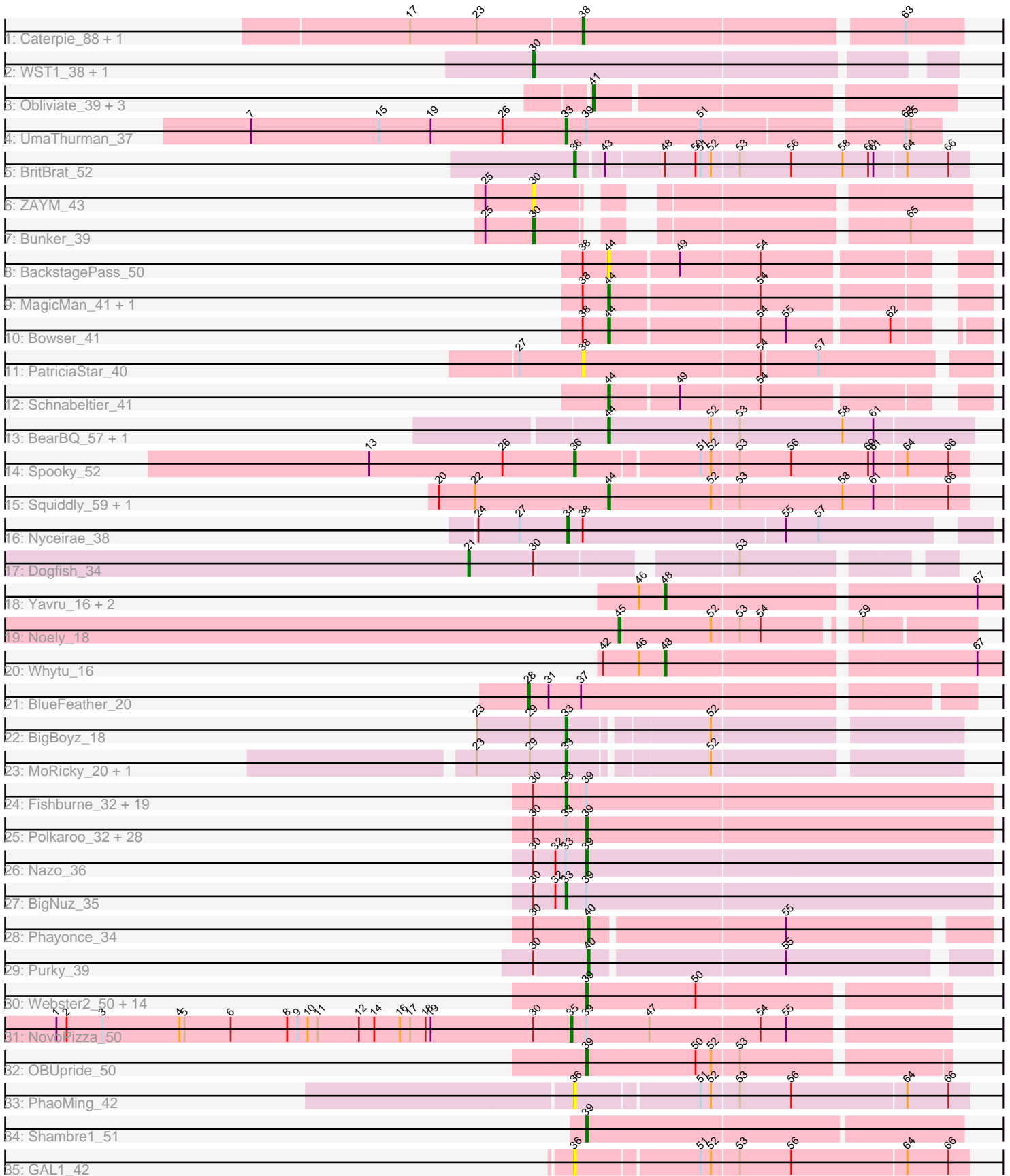


Pham 304874



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 304874 Report

This analysis was run 06/08/26 on database version 649.

Pham number 304874 has 107 members, 14 are drafts.

Phages represented in each track:

- Track 1 : Caterpie_88, Sejanus_84
- Track 2 : WST1_38, IdentityCrisis_37
- Track 3 : Obliviate_39, Petra_40, Zarbodnamra_42, Zilla_41
- Track 4 : UmaThurman_37
- Track 5 : BritBrat_52
- Track 6 : ZAYM_43
- Track 7 : Bunker_39
- Track 8 : BackstagePass_50
- Track 9 : MagicMan_41, Eyes_39
- Track 10 : Bowser_41
- Track 11 : PatriciaStar_40
- Track 12 : Schnabeltier_41
- Track 13 : BearBQ_57, MortyNRick_55
- Track 14 : Spooky_52
- Track 15 : Squiddly_59, Malisha_63
- Track 16 : Nyceirae_38
- Track 17 : Dogfish_34
- Track 18 : Yavru_16, Utopia_16, Piku_16
- Track 19 : Noely_18
- Track 20 : Whytu_16
- Track 21 : BlueFeather_20
- Track 22 : BigBoyz_18
- Track 23 : MoRicky_20, Smilerella_20
- Track 24 : Fishburne_32, Willsammy_31, Atcoo_32, Mangethe_32, Venti_32, Langerak_32, Majeke_32, Etoile_32, Juniormint_32, Necropolis_32, Donovan_32, Bunnies_32, Kari_32, FirstPlacePfu_32, Arib1_32, GaloreK_32, StevieRay_32, Thespis_32, Zilizebeth_32, Phegasus_32
- Track 25 : Polkaroo_32, Chubbello_32, Brusacoram_32, Vidya_32, PeanutPie_32, Bartholomew_31, Bhagsy_32, KilKor_32, Dynamo_32, Gavriela_32, Phalm_32, BronnyJr_32, Phineas_32, HUHilltop_32, Shipwreck_34, Megiddo_32, GreaseLightnin_32, Pygmy_34, Camster_32, Jebeks_33, Bogie_34, Techage_32, Ksqared_32, Malithi_32, Sonah_32, CactusJack_32, StressBall_32, Glaske_32, Jung_31
- Track 26 : Nazo_36
- Track 27 : BigNuz_35
- Track 28 : Phayonce_34
- Track 29 : Purky_39

- Track 30 : Webster2_50, Luke_50, LilHazelnut_50, Hadrien_50, Gancho_49, Ubuntu_50, BloominB_50, Forge_48, Ein37_50, Amymech_50, DeepSoil15_50, Amochick_50, Daegal_52, Evanesce_49, Kinbote_50
- Track 31 : NovoPizza_50
- Track 32 : OBUpride_50
- Track 33 : PhaoMing_42
- Track 34 : Shambre1_51
- Track 35 : GAL1_42

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 41 of the 93 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amochick_50, Amymech_50, Bartholomew_31, Bhagsy_32, BloominB_50, Bogie_34, BronnyJr_32, Brusacoram_32, CactusJack_32, Camster_32, Chubbello_32, Daegal_52, DeepSoil15_50, Dynamo_32, Ein37_50, Evanesce_49, Forge_48, Gancho_49, Gavriela_32, Glaske_32, GreaseLightnin_32, HUHilltop_32, Hadrien_50, Jebeks_33, Jung_31, KilKor_32, Kinbote_50, Ksquared_32, LilHazelnut_50, Luke_50, Malithi_32, Megiddo_32, Nazo_36, OBUpride_50, PeanutPie_32, Phalm_32, Phineas_32, Polkaroo_32, Pygmy_34, Shambre1_51, Shipwreck_34, Sonah_32, StressBall_32, Techage_32, Ubuntu_50, Vidya_32, Webster2_50,

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

- Arib1_32, Atcoo_32, BigNuz_35, Bunnies_32, Donovan_32, Etoile_32, FirstPlacePfu_32, Fishburne_32, GaloreK_32, Juniormint_32, Kari_32, Langerak_32, Majeke_32, Mangethe_32, Necropolis_32, NovoPizza_50, Phegasus_32, StevieRay_32, Thespis_32, UmaThurman_37, Venti_32, Willsammy_31, Zilizebeth_32,

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

- BackstagePass_50, BearBQ_57, BigBoyz_18, BlueFeather_20, Bowser_41, BritBrat_52, Bunker_39, Caterpie_88, Dogfish_34, Eyes_39, GAL1_42, IdentityCrisis_37, MagicMan_41, Malisha_63, MoRicky_20, MortyNRick_55, Noely_18, Nyceirae_38, Obliviate_39, PatriciaStar_40, Petra_40, PhaoMing_42, Phayonce_34, Piku_16, Purky_39, Schnabeltier_41, Sejanus_84, Smilerella_20, Spooky_52, Squiddly_59, Utopia_16, WST1_38, Whytu_16, Yavru_16, ZAYM_43, Zarbodnamra_42, Zilla_41,

Summary by start number:

Start 21:

- Found in 1 of 107 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 93
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dogfish_34 (DT),

Start 28:

- Found in 1 of 107 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 93
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BlueFeather_20 (FE),

Start 30:

- Found in 59 of 107 (55.1%) of genes in pham
- Manual Annotations of this start: 2 of 93
- Called 6.8% of time when present
- Phage (with cluster) where this start called: Bunker_39 (DB), IdentityCrisis_37 (AJ), WST1_38 (AJ), ZAYM_43 (DB),

Start 33:

- Found in 55 of 107 (51.4%) of genes in pham
- Manual Annotations of this start: 24 of 93
- Called 45.5% of time when present
- Phage (with cluster) where this start called: Arib1_32 (P1), Atcoo_32 (P1), BigBoyz_18 (GH), BigNuz_35 (P4), Bunnies_32 (P1), Donovan_32 (P1), Etoile_32 (P1), FirstPlacePfu_32 (P1), Fishburne_32 (P1), GaloreK_32 (P1), Juniormint_32 (P1), Kari_32 (P1), Langerak_32 (P1), Majeke_32 (P1), Mangethe_32 (P1), MoRicky_20 (GH), Necropolis_32 (P1), Phegasus_32 (P1), Smilerella_20 (GH), StevieRay_32 (P1), Thespis_32 (P1), UmaThurman_37 (CV), Venti_32 (P1), Willsammy_31 (P1), Zilizebeth_32 (P1),

Start 34:

- Found in 1 of 107 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 93
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nyceirae_38 (DT),

Start 35:

- Found in 1 of 107 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 93
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NovoPizza_50 (Q),

Start 36:

- Found in 4 of 107 (3.7%) of genes in pham
- Manual Annotations of this start: 2 of 93
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BritBrat_52 (CY2), GAL1_42 (singleton), PhaoMing_42 (UNK), Spooky_52 (DN2),

Start 38:

- Found in 8 of 107 (7.5%) of genes in pham
- Manual Annotations of this start: 1 of 93
- Called 37.5% of time when present
- Phage (with cluster) where this start called: Caterpie_88 (AD), PatriciaStar_40 (DB), Sejanus_84 (AD),

Start 39:

- Found in 70 of 107 (65.4%) of genes in pham
- Manual Annotations of this start: 41 of 93

- Called 67.1% of time when present
- Phage (with cluster) where this start called: Amochick_50 (Q), Amymech_50 (Q), Bartholomew_31 (P1), Bhagsy_32 (P1), BloominB_50 (Q), Bogie_34 (P1), BronnyJr_32 (P1), Brusacoram_32 (P1), CactusJack_32 (P1), Camster_32 (P1), Chubbello_32 (P1), Daegal_52 (Q), DeepSoil15_50 (Q), Dynamo_32 (P1), Ein37_50 (Q), Evanesce_49 (Q), Forge_48 (Q), Gancho_49 (Q), Gavriela_32 (P1), Glaske_32 (P1), GreaseLightnin_32 (P1), HUHilltop_32 (P1), Hadrien_50 (Q), Jebeks_33 (P1), Jung_31 (P1), KilKor_32 (P1), Kinbote_50 (Q), Ksqared_32 (P1), LilHazelNut_50 (Q), Luke_50 (Q), Malithi_32 (P1), Megiddo_32 (P1), Nazo_36 (P4), OBUpride_50 (Q), PeanutPie_32 (P1), Phalm_32 (P1), Phineas_32 (P1), Polkaroo_32 (P1), Pygmy_34 (P1), Shambre1_51 (singleton), Shipwreck_34 (P1), Sonah_32 (P1), StressBall_32 (P1), Techage_32 (P1), Ubuntu_50 (Q), Vidya_32 (P1), Webster2_50 (Q),

Start 40:

- Found in 2 of 107 (1.9%) of genes in pham
- Manual Annotations of this start: 2 of 93
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phayonce_34 (P5), Purky_39 (P6),

Start 41:

- Found in 4 of 107 (3.7%) of genes in pham
- Manual Annotations of this start: 4 of 93
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Obliviate_39 (CV), Petra_40 (CV), Zarbodnamra_42 (CV), Zilla_41 (CV),

Start 44:

- Found in 9 of 107 (8.4%) of genes in pham
- Manual Annotations of this start: 8 of 93
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BackstagePass_50 (DB), BearBQ_57 (DN), Bowser_41 (DB), Eyes_39 (DB), MagicMan_41 (DB), Malisha_63 (DN), MortyNRick_55 (DN), Schnabeltier_41 (DB), Squiddly_59 (DN2),

Start 45:

- Found in 1 of 107 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 93
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Noely_18 (FE),

Start 48:

- Found in 5 of 107 (4.7%) of genes in pham
- Manual Annotations of this start: 4 of 93
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Piku_16 (FE), Utopia_16 (FE), Whytu_16 (FE), Yavru_16 (FE),

Summary by clusters:

There are 17 clusters represented in this pham: DN, CY2, singleton, P1, P6, AD, P4, P5, AJ, DB, Q, FE, DN2, DT, UNK, CV, GH,

Info for manual annotations of cluster AD:

- Start number 38 was manually annotated 1 time for cluster AD.

Info for manual annotations of cluster AJ:

- Start number 30 was manually annotated 1 time for cluster AJ.

Info for manual annotations of cluster CV:

- Start number 33 was manually annotated 1 time for cluster CV.
- Start number 41 was manually annotated 4 times for cluster CV.

Info for manual annotations of cluster CY2:

- Start number 36 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster DB:

- Start number 30 was manually annotated 1 time for cluster DB.
- Start number 44 was manually annotated 4 times for cluster DB.

Info for manual annotations of cluster DN:

- Start number 44 was manually annotated 3 times for cluster DN.

Info for manual annotations of cluster DN2:

- Start number 36 was manually annotated 1 time for cluster DN2.
- Start number 44 was manually annotated 1 time for cluster DN2.

Info for manual annotations of cluster DT:

- Start number 21 was manually annotated 1 time for cluster DT.
- Start number 34 was manually annotated 1 time for cluster DT.

Info for manual annotations of cluster FE:

- Start number 28 was manually annotated 1 time for cluster FE.
- Start number 45 was manually annotated 1 time for cluster FE.
- Start number 48 was manually annotated 4 times for cluster FE.

Info for manual annotations of cluster GH:

- Start number 33 was manually annotated 3 times for cluster GH.

Info for manual annotations of cluster P1:

- Start number 33 was manually annotated 19 times for cluster P1.
- Start number 39 was manually annotated 24 times for cluster P1.

Info for manual annotations of cluster P4:

- Start number 33 was manually annotated 1 time for cluster P4.
- Start number 39 was manually annotated 1 time for cluster P4.

Info for manual annotations of cluster P5:

- Start number 40 was manually annotated 1 time 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 35 was manually annotated 1 time for cluster Q.
- Start number 39 was manually annotated 15 times for cluster Q.

Gene Information:

Gene: Amochick_50 Start: 36955, Stop: 37152, Start Num: 39

Candidate Starts for Amochick_50:

(Start: 39 @36955 has 41 MA's), (50, 37018),

Gene: Amymech_50 Start: 36949, Stop: 37146, Start Num: 39

Candidate Starts for Amymech_50:

(Start: 39 @36949 has 41 MA's), (50, 37012),

Gene: Arib1_32 Start: 27470, Stop: 27715, Start Num: 33

Candidate Starts for Arib1_32:

(Start: 30 @27452 has 2 MA's), (Start: 33 @27470 has 24 MA's), (Start: 39 @27482 has 41 MA's),

Gene: Atcoo_32 Start: 27951, Stop: 28196, Start Num: 33

Candidate Starts for Atcoo_32:

(Start: 30 @27933 has 2 MA's), (Start: 33 @27951 has 24 MA's), (Start: 39 @27963 has 41 MA's),

Gene: BackstagePass_50 Start: 34306, Stop: 34112, Start Num: 44

Candidate Starts for BackstagePass_50:

(Start: 38 @34321 has 1 MA's), (Start: 44 @34306 has 8 MA's), (49, 34267), (54, 34222),

Gene: Bartholomew_31 Start: 27476, Stop: 27709, Start Num: 39

Candidate Starts for Bartholomew_31:

(Start: 30 @27446 has 2 MA's), (Start: 33 @27464 has 24 MA's), (Start: 39 @27476 has 41 MA's),

Gene: BearBQ_57 Start: 39707, Stop: 39916, Start Num: 44

Candidate Starts for BearBQ_57:

(Start: 44 @39707 has 8 MA's), (52, 39767), (53, 39782), (58, 39842), (61, 39860),

Gene: Bhagsy_32 Start: 27472, Stop: 27705, Start Num: 39

Candidate Starts for Bhagsy_32:

(Start: 30 @27442 has 2 MA's), (Start: 33 @27460 has 24 MA's), (Start: 39 @27472 has 41 MA's),

Gene: BigBoyz_18 Start: 13745, Stop: 13954, Start Num: 33

Candidate Starts for BigBoyz_18:

(23, 13694), (29, 13724), (Start: 33 @13745 has 24 MA's), (52, 13820),

Gene: BigNuz_35 Start: 29592, Stop: 29837, Start Num: 33

Candidate Starts for BigNuz_35:

(Start: 30 @29574 has 2 MA's), (32, 29586), (Start: 33 @29592 has 24 MA's), (Start: 39 @29604 has 41 MA's),

Gene: BloominB_50 Start: 36949, Stop: 37146, Start Num: 39

Candidate Starts for BloominB_50:

(Start: 39 @36949 has 41 MA's), (50, 37012),

Gene: BlueFeather_20 Start: 14165, Stop: 14407, Start Num: 28

Candidate Starts for BlueFeather_20:

(Start: 28 @14165 has 1 MA's), (31, 14177), (37, 14195),

Gene: Bogie_34 Start: 29259, Stop: 29492, Start Num: 39

Candidate Starts for Bogie_34:

(Start: 30 @29229 has 2 MA's), (Start: 33 @29247 has 24 MA's), (Start: 39 @29259 has 41 MA's),

Gene: Bowser_41 Start: 32656, Stop: 32847, Start Num: 44

Candidate Starts for Bowser_41:

(Start: 38 @32641 has 1 MA's), (Start: 44 @32656 has 8 MA's), (54, 32740), (55, 32755), (62, 32809),

Gene: BritBrat_52 Start: 37915, Stop: 38136, Start Num: 36

Candidate Starts for BritBrat_52:

(Start: 36 @37915 has 2 MA's), (43, 37930), (Start: 48 @37963 has 4 MA's), (50, 37981), (51, 37984), (52, 37990), (53, 38005), (56, 38035), (58, 38065), (60, 38080), (61, 38083), (64, 38101), (66, 38125),

Gene: BronnyJr_32 Start: 27973, Stop: 28206, Start Num: 39

Candidate Starts for BronnyJr_32:

(Start: 30 @27943 has 2 MA's), (Start: 33 @27961 has 24 MA's), (Start: 39 @27973 has 41 MA's),

Gene: Brusacoram_32 Start: 27469, Stop: 27702, Start Num: 39

Candidate Starts for Brusacoram_32:

(Start: 30 @27439 has 2 MA's), (Start: 33 @27457 has 24 MA's), (Start: 39 @27469 has 41 MA's),

Gene: Bunker_39 Start: 31881, Stop: 32090, Start Num: 30

Candidate Starts for Bunker_39:

(25, 31854), (Start: 30 @31881 has 2 MA's), (65, 32055),

Gene: Bunnies_32 Start: 27478, Stop: 27723, Start Num: 33

Candidate Starts for Bunnies_32:

(Start: 30 @27460 has 2 MA's), (Start: 33 @27478 has 24 MA's), (Start: 39 @27490 has 41 MA's),

Gene: CactusJack_32 Start: 27733, Stop: 27966, Start Num: 39

Candidate Starts for CactusJack_32:

(Start: 30 @27703 has 2 MA's), (Start: 33 @27721 has 24 MA's), (Start: 39 @27733 has 41 MA's),

Gene: Camster_32 Start: 27506, Stop: 27739, Start Num: 39

Candidate Starts for Camster_32:

(Start: 30 @27476 has 2 MA's), (Start: 33 @27494 has 24 MA's), (Start: 39 @27506 has 41 MA's),

Gene: Caterpie_88 Start: 56710, Stop: 56919, Start Num: 38

Candidate Starts for Caterpie_88:

(17, 56611), (23, 56650), (Start: 38 @56710 has 1 MA's), (63, 56887),

Gene: Chubbello_32 Start: 27475, Stop: 27708, Start Num: 39

Candidate Starts for Chubbello_32:

(Start: 30 @27445 has 2 MA's), (Start: 33 @27463 has 24 MA's), (Start: 39 @27475 has 41 MA's),

Gene: Daegal_52 Start: 37533, Stop: 37730, Start Num: 39

Candidate Starts for Daegal_52:

(Start: 39 @37533 has 41 MA's), (50, 37596),

Gene: DeepSoil15_50 Start: 36949, Stop: 37146, Start Num: 39

Candidate Starts for DeepSoil15_50:

(Start: 39 @36949 has 41 MA's), (50, 37012),

Gene: Dogfish_34 Start: 29638, Stop: 29883, Start Num: 21

Candidate Starts for Dogfish_34:

(Start: 21 @29638 has 1 MA's), (Start: 30 @29674 has 2 MA's), (53, 29776),

Gene: Donovan_32 Start: 27486, Stop: 27731, Start Num: 33

Candidate Starts for Donovan_32:

(Start: 30 @27468 has 2 MA's), (Start: 33 @27486 has 24 MA's), (Start: 39 @27498 has 41 MA's),

Gene: Dynamo_32 Start: 27887, Stop: 28120, Start Num: 39

Candidate Starts for Dynamo_32:

(Start: 30 @27857 has 2 MA's), (Start: 33 @27875 has 24 MA's), (Start: 39 @27887 has 41 MA's),

Gene: Ein37_50 Start: 36949, Stop: 37146, Start Num: 39

Candidate Starts for Ein37_50:

(Start: 39 @36949 has 41 MA's), (50, 37012),

Gene: Etoile_32 Start: 27464, Stop: 27709, Start Num: 33

Candidate Starts for Etoile_32:

(Start: 30 @27446 has 2 MA's), (Start: 33 @27464 has 24 MA's), (Start: 39 @27476 has 41 MA's),

Gene: Evanesce_49 Start: 36949, Stop: 37146, Start Num: 39

Candidate Starts for Evanesce_49:

(Start: 39 @36949 has 41 MA's), (50, 37012),

Gene: Eyes_39 Start: 32432, Stop: 32626, Start Num: 44

Candidate Starts for Eyes_39:

(Start: 38 @32417 has 1 MA's), (Start: 44 @32432 has 8 MA's), (54, 32516),

Gene: FirstPlacePfu_32 Start: 27496, Stop: 27741, Start Num: 33

Candidate Starts for FirstPlacePfu_32:

(Start: 30 @27478 has 2 MA's), (Start: 33 @27496 has 24 MA's), (Start: 39 @27508 has 41 MA's),

Gene: Fishburne_32 Start: 27464, Stop: 27709, Start Num: 33

Candidate Starts for Fishburne_32:

(Start: 30 @27446 has 2 MA's), (Start: 33 @27464 has 24 MA's), (Start: 39 @27476 has 41 MA's),

Gene: Forge_48 Start: 36949, Stop: 37146, Start Num: 39

Candidate Starts for Forge_48:

(Start: 39 @36949 has 41 MA's), (50, 37012),

Gene: GAL1_42 Start: 33753, Stop: 33974, Start Num: 36

Candidate Starts for GAL1_42:

(Start: 36 @33753 has 2 MA's), (51, 33822), (52, 33828), (53, 33843), (56, 33873), (64, 33939), (66, 33963),

Gene: GaloreK_32 Start: 27460, Stop: 27705, Start Num: 33

Candidate Starts for GaloreK_32:

(Start: 30 @27442 has 2 MA's), (Start: 33 @27460 has 24 MA's), (Start: 39 @27472 has 41 MA's),

Gene: Gancho_49 Start: 36672, Stop: 36869, Start Num: 39

Candidate Starts for Gancho_49:

(Start: 39 @36672 has 41 MA's), (50, 36735),

Gene: Gavriela_32 Start: 27733, Stop: 27966, Start Num: 39

Candidate Starts for Gavriela_32:

(Start: 30 @27703 has 2 MA's), (Start: 33 @27721 has 24 MA's), (Start: 39 @27733 has 41 MA's),

Gene: Glaske_32 Start: 27733, Stop: 27966, Start Num: 39

Candidate Starts for Glaske_32:

(Start: 30 @27703 has 2 MA's), (Start: 33 @27721 has 24 MA's), (Start: 39 @27733 has 41 MA's),

Gene: GreaseLightnin_32 Start: 27725, Stop: 27958, Start Num: 39

Candidate Starts for GreaseLightnin_32:

(Start: 30 @27695 has 2 MA's), (Start: 33 @27713 has 24 MA's), (Start: 39 @27725 has 41 MA's),

Gene: HUHilltop_32 Start: 27509, Stop: 27742, Start Num: 39

Candidate Starts for HUHilltop_32:

(Start: 30 @27479 has 2 MA's), (Start: 33 @27497 has 24 MA's), (Start: 39 @27509 has 41 MA's),

Gene: Hadrien_50 Start: 36949, Stop: 37146, Start Num: 39

Candidate Starts for Hadrien_50:

(Start: 39 @36949 has 41 MA's), (50, 37012),

Gene: IdentityCrisis_37 Start: 27479, Stop: 27703, Start Num: 30

Candidate Starts for IdentityCrisis_37:

(Start: 30 @27479 has 2 MA's),

Gene: Jebeks_33 Start: 27461, Stop: 27694, Start Num: 39

Candidate Starts for Jebeks_33:

(Start: 30 @27431 has 2 MA's), (Start: 33 @27449 has 24 MA's), (Start: 39 @27461 has 41 MA's),

Gene: Jung_31 Start: 27440, Stop: 27673, Start Num: 39

Candidate Starts for Jung_31:

(Start: 30 @27410 has 2 MA's), (Start: 33 @27428 has 24 MA's), (Start: 39 @27440 has 41 MA's),

Gene: Juniormint_32 Start: 27500, Stop: 27745, Start Num: 33

Candidate Starts for Juniormint_32:

(Start: 30 @27482 has 2 MA's), (Start: 33 @27500 has 24 MA's), (Start: 39 @27512 has 41 MA's),

Gene: Kari_32 Start: 27461, Stop: 27706, Start Num: 33

Candidate Starts for Kari_32:

(Start: 30 @27443 has 2 MA's), (Start: 33 @27461 has 24 MA's), (Start: 39 @27473 has 41 MA's),

Gene: KilKor_32 Start: 27733, Stop: 27966, Start Num: 39

Candidate Starts for KilKor_32:

(Start: 30 @27703 has 2 MA's), (Start: 33 @27721 has 24 MA's), (Start: 39 @27733 has 41 MA's),

Gene: Kinbote_50 Start: 36949, Stop: 37146, Start Num: 39

Candidate Starts for Kinbote_50:

(Start: 39 @36949 has 41 MA's), (50, 37012),

Gene: Ksquared_32 Start: 27490, Stop: 27723, Start Num: 39

Candidate Starts for Ksquared_32:

(Start: 30 @27460 has 2 MA's), (Start: 33 @27478 has 24 MA's), (Start: 39 @27490 has 41 MA's),

Gene: Langerak_32 Start: 27480, Stop: 27725, Start Num: 33
Candidate Starts for Langerak_32:
(Start: 30 @27462 has 2 MA's), (Start: 33 @27480 has 24 MA's), (Start: 39 @27492 has 41 MA's),

Gene: LilHazelnut_50 Start: 36949, Stop: 37146, Start Num: 39
Candidate Starts for LilHazelnut_50:
(Start: 39 @36949 has 41 MA's), (50, 37012),

Gene: Luke_50 Start: 36904, Stop: 37101, Start Num: 39
Candidate Starts for Luke_50:
(Start: 39 @36904 has 41 MA's), (50, 36967),

Gene: MagicMan_41 Start: 32979, Stop: 33173, Start Num: 44
Candidate Starts for MagicMan_41:
(Start: 38 @32964 has 1 MA's), (Start: 44 @32979 has 8 MA's), (54, 33063),

Gene: Majeke_32 Start: 27502, Stop: 27747, Start Num: 33
Candidate Starts for Majeke_32:
(Start: 30 @27484 has 2 MA's), (Start: 33 @27502 has 24 MA's), (Start: 39 @27514 has 41 MA's),

Gene: Malisha_63 Start: 40533, Stop: 40739, Start Num: 44
Candidate Starts for Malisha_63:
(20, 40434), (22, 40455), (Start: 44 @40533 has 8 MA's), (52, 40593), (53, 40608), (58, 40668), (61, 40686), (66, 40728),

Gene: Malithi_32 Start: 27399, Stop: 27632, Start Num: 39
Candidate Starts for Malithi_32:
(Start: 30 @27369 has 2 MA's), (Start: 33 @27387 has 24 MA's), (Start: 39 @27399 has 41 MA's),

Gene: Mangethe_32 Start: 27502, Stop: 27747, Start Num: 33
Candidate Starts for Mangethe_32:
(Start: 30 @27484 has 2 MA's), (Start: 33 @27502 has 24 MA's), (Start: 39 @27514 has 41 MA's),

Gene: Megiddo_32 Start: 27733, Stop: 27966, Start Num: 39
Candidate Starts for Megiddo_32:
(Start: 30 @27703 has 2 MA's), (Start: 33 @27721 has 24 MA's), (Start: 39 @27733 has 41 MA's),

Gene: MoRicky_20 Start: 14364, Stop: 14573, Start Num: 33
Candidate Starts for MoRicky_20:
(23, 14313), (29, 14343), (Start: 33 @14364 has 24 MA's), (52, 14439),

Gene: MortyNRick_55 Start: 39746, Stop: 39955, Start Num: 44
Candidate Starts for MortyNRick_55:
(Start: 44 @39746 has 8 MA's), (52, 39806), (53, 39821), (58, 39881), (61, 39899),

Gene: Nazo_36 Start: 29606, Stop: 29839, Start Num: 39
Candidate Starts for Nazo_36:
(Start: 30 @29576 has 2 MA's), (32, 29588), (Start: 33 @29594 has 24 MA's), (Start: 39 @29606 has 41 MA's),

Gene: Necropolis_32 Start: 27461, Stop: 27706, Start Num: 33
Candidate Starts for Necropolis_32:

(Start: 30 @27443 has 2 MA's), (Start: 33 @27461 has 24 MA's), (Start: 39 @27473 has 41 MA's),

Gene: Noely_18 Start: 12900, Stop: 13088, Start Num: 45

Candidate Starts for Noely_18:

(Start: 45 @12900 has 1 MA's), (52, 12954), (53, 12969), (54, 12981), (59, 13026),

Gene: NovoPizza_50 Start: 37432, Stop: 37641, Start Num: 35

Candidate Starts for NovoPizza_50:

(1, 37132), (2, 37138), (3, 37159), (4, 37204), (5, 37207), (6, 37234), (8, 37267), (9, 37273), (10, 37279), (11, 37285), (12, 37309), (14, 37318), (16, 37333), (17, 37339), (18, 37348), (19, 37351), (Start: 30 @37411 has 2 MA's), (Start: 35 @37432 has 1 MA's), (Start: 39 @37441 has 41 MA's), (47, 37477), (54, 37540), (55, 37555),

Gene: Nyceirae_38 Start: 30354, Stop: 30581, Start Num: 34

Candidate Starts for Nyceirae_38:

(24, 30303), (27, 30327), (Start: 34 @30354 has 1 MA's), (Start: 38 @30363 has 1 MA's), (55, 30477), (57, 30495),

Gene: OBUpride_50 Start: 36945, Stop: 37142, Start Num: 39

Candidate Starts for OBUpride_50:

(Start: 39 @36945 has 41 MA's), (50, 37008), (52, 37017), (53, 37032),

Gene: Obliviate_39 Start: 31330, Stop: 31524, Start Num: 41

Candidate Starts for Obliviate_39:

(Start: 41 @31330 has 4 MA's),

Gene: PatriciaStar_40 Start: 32550, Stop: 32774, Start Num: 38

Candidate Starts for PatriciaStar_40:

(27, 32514), (Start: 38 @32550 has 1 MA's), (54, 32652), (57, 32682),

Gene: PeanutPie_32 Start: 27472, Stop: 27705, Start Num: 39

Candidate Starts for PeanutPie_32:

(Start: 30 @27442 has 2 MA's), (Start: 33 @27460 has 24 MA's), (Start: 39 @27472 has 41 MA's),

Gene: Petra_40 Start: 31689, Stop: 31883, Start Num: 41

Candidate Starts for Petra_40:

(Start: 41 @31689 has 4 MA's),

Gene: Phalm_32 Start: 27733, Stop: 27966, Start Num: 39

Candidate Starts for Phalm_32:

(Start: 30 @27703 has 2 MA's), (Start: 33 @27721 has 24 MA's), (Start: 39 @27733 has 41 MA's),

Gene: PhaoMing_42 Start: 34692, Stop: 34913, Start Num: 36

Candidate Starts for PhaoMing_42:

(Start: 36 @34692 has 2 MA's), (51, 34761), (52, 34767), (53, 34782), (56, 34812), (64, 34878), (66, 34902),

Gene: Phayonce_34 Start: 29517, Stop: 29735, Start Num: 40

Candidate Starts for Phayonce_34:

(Start: 30 @29487 has 2 MA's), (Start: 40 @29517 has 2 MA's), (55, 29625),

Gene: Phegasus_32 Start: 27469, Stop: 27714, Start Num: 33

Candidate Starts for Phegasus_32:

(Start: 30 @27451 has 2 MA's), (Start: 33 @27469 has 24 MA's), (Start: 39 @27481 has 41 MA's),

Gene: Phineas_32 Start: 27847, Stop: 28080, Start Num: 39

Candidate Starts for Phineas_32:

(Start: 30 @27817 has 2 MA's), (Start: 33 @27835 has 24 MA's), (Start: 39 @27847 has 41 MA's),

Gene: Piku_16 Start: 12727, Stop: 12912, Start Num: 48

Candidate Starts for Piku_16:

(46, 12712), (Start: 48 @12727 has 4 MA's), (67, 12898),

Gene: Polkaroo_32 Start: 27490, Stop: 27723, Start Num: 39

Candidate Starts for Polkaroo_32:

(Start: 30 @27460 has 2 MA's), (Start: 33 @27478 has 24 MA's), (Start: 39 @27490 has 41 MA's),

Gene: Purky_39 Start: 30247, Stop: 30462, Start Num: 40

Candidate Starts for Purky_39:

(Start: 30 @30217 has 2 MA's), (Start: 40 @30247 has 2 MA's), (55, 30355),

Gene: Pygmy_34 Start: 29315, Stop: 29548, Start Num: 39

Candidate Starts for Pygmy_34:

(Start: 30 @29285 has 2 MA's), (Start: 33 @29303 has 24 MA's), (Start: 39 @29315 has 41 MA's),

Gene: Schnabeltier_41 Start: 32611, Stop: 32805, Start Num: 44

Candidate Starts for Schnabeltier_41:

(Start: 44 @32611 has 8 MA's), (49, 32650), (54, 32695),

Gene: Sejanus_84 Start: 57638, Stop: 57847, Start Num: 38

Candidate Starts for Sejanus_84:

(17, 57539), (23, 57578), (Start: 38 @57638 has 1 MA's), (63, 57815),

Gene: Shambre1_51 Start: 32314, Stop: 32526, Start Num: 39

Candidate Starts for Shambre1_51:

(Start: 39 @32314 has 41 MA's),

Gene: Shipwreck_34 Start: 29290, Stop: 29523, Start Num: 39

Candidate Starts for Shipwreck_34:

(Start: 30 @29260 has 2 MA's), (Start: 33 @29278 has 24 MA's), (Start: 39 @29290 has 41 MA's),

Gene: Smilerella_20 Start: 14454, Stop: 14663, Start Num: 33

Candidate Starts for Smilerella_20:

(23, 14403), (29, 14433), (Start: 33 @14454 has 24 MA's), (52, 14529),

Gene: Sonah_32 Start: 27462, Stop: 27695, Start Num: 39

Candidate Starts for Sonah_32:

(Start: 30 @27432 has 2 MA's), (Start: 33 @27450 has 24 MA's), (Start: 39 @27462 has 41 MA's),

Gene: Spooky_52 Start: 37230, Stop: 37451, Start Num: 36

Candidate Starts for Spooky_52:

(13, 37110), (26, 37188), (Start: 36 @37230 has 2 MA's), (51, 37299), (52, 37305), (53, 37320), (56, 37350), (60, 37395), (61, 37398), (64, 37416), (66, 37440),

Gene: Squiddly_59 Start: 40046, Stop: 40252, Start Num: 44

Candidate Starts for Squiddly_59:

(20, 39947), (22, 39968), (Start: 44 @40046 has 8 MA's), (52, 40106), (53, 40121), (58, 40181), (61, 40199), (66, 40241),

Gene: StevieRay_32 Start: 27429, Stop: 27674, Start Num: 33

Candidate Starts for StevieRay_32:

(Start: 30 @27411 has 2 MA's), (Start: 33 @27429 has 24 MA's), (Start: 39 @27441 has 41 MA's),

Gene: StressBall_32 Start: 27733, Stop: 27966, Start Num: 39

Candidate Starts for StressBall_32:

(Start: 30 @27703 has 2 MA's), (Start: 33 @27721 has 24 MA's), (Start: 39 @27733 has 41 MA's),

Gene: Techage_32 Start: 27499, Stop: 27732, Start Num: 39

Candidate Starts for Techage_32:

(Start: 30 @27469 has 2 MA's), (Start: 33 @27487 has 24 MA's), (Start: 39 @27499 has 41 MA's),

Gene: Thespis_32 Start: 27457, Stop: 27702, Start Num: 33

Candidate Starts for Thespis_32:

(Start: 30 @27439 has 2 MA's), (Start: 33 @27457 has 24 MA's), (Start: 39 @27469 has 41 MA's),

Gene: Ubuntu_50 Start: 36949, Stop: 37146, Start Num: 39

Candidate Starts for Ubuntu_50:

(Start: 39 @36949 has 41 MA's), (50, 37012),

Gene: UmaThurman_37 Start: 31748, Stop: 31954, Start Num: 33

Candidate Starts for UmaThurman_37:

(7, 31565), (15, 31640), (19, 31670), (26, 31712), (Start: 33 @31748 has 24 MA's), (Start: 39 @31760 has 41 MA's), (51, 31826), (63, 31934), (65, 31937),

Gene: Utopia_16 Start: 12698, Stop: 12883, Start Num: 48

Candidate Starts for Utopia_16:

(46, 12683), (Start: 48 @12698 has 4 MA's), (67, 12869),

Gene: Venti_32 Start: 27464, Stop: 27709, Start Num: 33

Candidate Starts for Venti_32:

(Start: 30 @27446 has 2 MA's), (Start: 33 @27464 has 24 MA's), (Start: 39 @27476 has 41 MA's),

Gene: Vidya_32 Start: 27509, Stop: 27742, Start Num: 39

Candidate Starts for Vidya_32:

(Start: 30 @27479 has 2 MA's), (Start: 33 @27497 has 24 MA's), (Start: 39 @27509 has 41 MA's),

Gene: WST1_38 Start: 27336, Stop: 27560, Start Num: 30

Candidate Starts for WST1_38:

(Start: 30 @27336 has 2 MA's),

Gene: Webster2_50 Start: 36949, Stop: 37146, Start Num: 39

Candidate Starts for Webster2_50:

(Start: 39 @36949 has 41 MA's), (50, 37012),

Gene: Whytu_16 Start: 12793, Stop: 12978, Start Num: 48

Candidate Starts for Whytu_16:

(42, 12757), (46, 12778), (Start: 48 @12793 has 4 MA's), (67, 12964),

Gene: Willsammy_31 Start: 27204, Stop: 27449, Start Num: 33

Candidate Starts for Willsammy_31:
(Start: 30 @27186 has 2 MA's), (Start: 33 @27204 has 24 MA's), (Start: 39 @27216 has 41 MA's),

Gene: Yavru_16 Start: 12688, Stop: 12873, Start Num: 48
Candidate Starts for Yavru_16:
(46, 12673), (Start: 48 @12688 has 4 MA's), (67, 12859),

Gene: ZAYM_43 Start: 32247, Stop: 32456, Start Num: 30
Candidate Starts for ZAYM_43:
(25, 32220), (Start: 30 @32247 has 2 MA's),

Gene: Zarbodnamra_42 Start: 32451, Stop: 32645, Start Num: 41
Candidate Starts for Zarbodnamra_42:
(Start: 41 @32451 has 4 MA's),

Gene: Zilizebeth_32 Start: 27496, Stop: 27741, Start Num: 33
Candidate Starts for Zilizebeth_32:
(Start: 30 @27478 has 2 MA's), (Start: 33 @27496 has 24 MA's), (Start: 39 @27508 has 41 MA's),

Gene: Zilla_41 Start: 32198, Stop: 32392, Start Num: 41
Candidate Starts for Zilla_41:
(Start: 41 @32198 has 4 MA's),