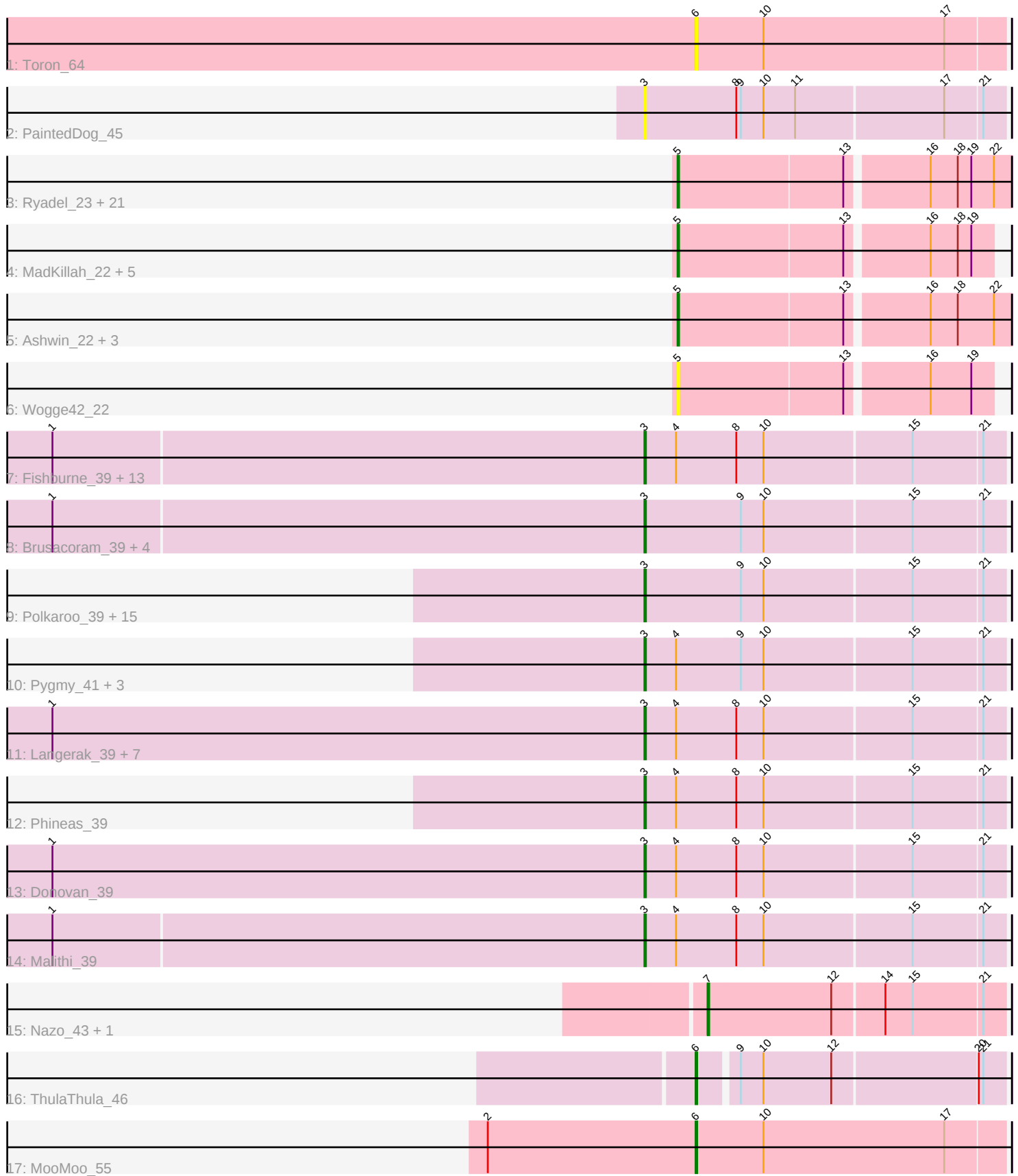


Pham 274192



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 274192 Report

This analysis was run 02/07/26 on database version 634.

Pham number 274192 has 89 members, 12 are drafts.

Phages represented in each track:

- Track 1 : Toron_64
- Track 2 : PaintedDog_45
- Track 3 : Ryadel_23, Vorrrps_21, Zebo_20, Murai_21, YoyoKar_21, Familton_21, NiebruSaylor_21, Idergollasper_20, Imara_21, FoulBall_20, SchoolBus_20, Winget_21, Firecracker_21, KingPhillip3_20, Schuy_22, JangDynasty_20, Shida_21, TelAviv_20, Vagabond_21, Catdawg_20, Krili_21, Blessica_21
- Track 4 : MadKillah_22, Bora_21, YungJamal_22, Smooch_22, Alkhayr_21, Corndog_23
- Track 5 : Ashwin_22, Wildflower_21, Dylan_21, Zakhe101_22
- Track 6 : Wogge42_22
- Track 7 : Fishburne_39, Bartholomew_38, Venti_39, Dynamo_39, BronnyJr_39, Vidya_39, Necropolis_39, Chubbello_39, FirstPlacePfu_39, Kari_39, Jebeks_40, Etoile_39, Sonah_39, Zilizebeth_39
- Track 8 : Brusacoram_39, Xen0_41, Atcoo_39, GreaseLightnin_39, Thespis_39
- Track 9 : Polkaroo_39, Bhagsy_39, KilKor_39, Phalm_39, PeanutPie_39, Jung_38, Gavriela_39, Willsammy_38, Megiddo_39, Bunnies_39, StevieRay_39, Juniormint_39, Ksquared_39, StressBall_39, CactusJack_39, Glaske_39
- Track 10 : Pygmy_41, Bogie_41, Shipwreck_41, Camster_39
- Track 11 : Langerak_39, Mangethe_39, Majeke_39, HUHilltop_39, Arib1_39, GaloreK_39, Techage_39, Phegasus_39
- Track 12 : Phineas_39
- Track 13 : Donovan_39
- Track 14 : Malithi_39
- Track 15 : Nazo_43, BigNuz_42
- Track 16 : ThulaThula_46
- Track 17 : MooMoo_55

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

The start number called the most often in the published annotations is 3, it was called in 44 of the 77 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arib1_39, Atcoo_39, Bartholomew_38, Bhagsy_39, Bogie_41, BronnyJr_39, Brusacoram_39, Bunnies_39, CactusJack_39, Camster_39, Chubbello_39, Donovan_39, Dynamo_39, Etoile_39, FirstPlacePfu_39, Fishburne_39, GaloreK_39, Gavriela_39, Glaske_39, GreaseLightnin_39, HUHilltop_39, Jebeks_40, Jung_38, Juniormint_39, Kari_39, KilKor_39, Ksquared_39, Langerak_39, Majeke_39, Malithi_39, Mangethe_39, Megiddo_39, Necropolis_39, PaintedDog_45, PeanutPie_39, Phalm_39, Phegasus_39, Phineas_39, Polkaroo_39, Pygmy_41, Shipwreck_41, Sonah_39, StevieRay_39, StressBall_39, Techage_39, Thespis_39, Venti_39, Vidya_39, Willsammy_38, Xeno_41, Zilizebeth_39,

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

-

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

- Alkhayr_21, Ashwin_22, BigNuz_42, Blessica_21, Bora_21, Catdawg_20, Corndog_23, Dylan_21, Familton_21, Firecracker_21, FoulBall_20, Idergollasper_20, Imara_21, JangDynasty_20, KingPhillip3_20, Krili_21, MadKillah_22, MooMoo_55, Murai_21, Nazo_43, NiebruSaylor_21, Ryadel_23, SchoolBus_20, Schuy_22, Shida_21, Smooch_22, TelAviv_20, ThulaThula_46, Toron_64, Vagabond_21, Vorrrps_21, Wildflower_21, Winget_21, Wogge42_22, YoyoKar_21, YungJamal_22, Zakhe101_22, Zebo_20,

Summary by start number:

Start 3:

- Found in 51 of 89 (57.3%) of genes in pham
- Manual Annotations of this start: 44 of 77
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arib1_39 (P1), Atcoo_39 (P1), Bartholomew_38 (P1), Bhagsy_39 (P1), Bogie_41 (P1), BronnyJr_39 (P1), Brusacoram_39 (P1), Bunnies_39 (P1), CactusJack_39 (P1), Camster_39 (P1), Chubbello_39 (P1), Donovan_39 (P1), Dynamo_39 (P1), Etoile_39 (P1), FirstPlacePfu_39 (P1), Fishburne_39 (P1), GaloreK_39 (P1), Gavriela_39 (P1), Glaske_39 (P1), GreaseLightnin_39 (P1), HUHilltop_39 (P1), Jebeks_40 (P1), Jung_38 (P1), Juniormint_39 (P1), Kari_39 (P1), KilKor_39 (P1), Ksquared_39 (P1), Langerak_39 (P1), Majeke_39 (P1), Malithi_39 (P1), Mangethe_39 (P1), Megiddo_39 (P1), Necropolis_39 (P1), PaintedDog_45 (I1), PeanutPie_39 (P1), Phalm_39 (P1), Phegasus_39 (P1), Phineas_39 (P1), Polkaroo_39 (P1), Pygmy_41 (P1), Shipwreck_41 (P1), Sonah_39 (P1), StevieRay_39 (P1), StressBall_39 (P1), Techage_39 (P1), Thespis_39 (P1), Venti_39 (P1), Vidya_39 (P1), Willsammy_38 (P1), Xeno_41 (N), Zilizebeth_39 (P1),

Start 5:

- Found in 33 of 89 (37.1%) of genes in pham
- Manual Annotations of this start: 29 of 77
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alkhayr_21 (O), Ashwin_22 (O), Blessica_21 (O), Bora_21 (O), Catdawg_20 (O), Corndog_23 (O), Dylan_21 (O), Familton_21 (O), Firecracker_21 (O), FoulBall_20 (O), Idergollasper_20 (O), Imara_21 (O), JangDynasty_20 (O), KingPhillip3_20 (O), Krili_21 (O), MadKillah_22 (O), Murai_21 (O), NiebruSaylor_21 (O), Ryadel_23 (O), SchoolBus_20 (O), Schuy_22 (O), Shida_21 (O), Smooch_22 (O), TelAviv_20 (O), Vagabond_21 (O), Vorrrps_21 (O), Wildflower_21 (O), Winget_21 (O), Wogge42_22 (O), YoyoKar_21

(O), YungJamal_22 (O), Zakhe101_22 (O), Zebo_20 (O),

Start 6:

- Found in 3 of 89 (3.4%) of genes in pham
- Manual Annotations of this start: 2 of 77
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MooMoo_55 (singleton), ThulaThula_46 (P5), Toron_64 (F6),

Start 7:

- Found in 2 of 89 (2.2%) of genes in pham
- Manual Annotations of this start: 2 of 77
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BigNuz_42 (P4), Nazo_43 (P4),

Summary by clusters:

There are 8 clusters represented in this pham: singleton, P1, F6, P4, P5, I1, O, N,

Info for manual annotations of cluster N:

- Start number 3 was manually annotated 1 time for cluster N.

Info for manual annotations of cluster O:

- Start number 5 was manually annotated 29 times for cluster O.

Info for manual annotations of cluster P1:

- Start number 3 was manually annotated 43 times for cluster P1.

Info for manual annotations of cluster P4:

- Start number 7 was manually annotated 2 times for cluster P4.

Info for manual annotations of cluster P5:

- Start number 6 was manually annotated 1 time for cluster P5.

Gene Information:

Gene: Alkhayr_21 Start: 10248, Stop: 10448, Start Num: 5

Candidate Starts for Alkhayr_21:

(Start: 5 @10248 has 29 MA's), (13, 10356), (16, 10407), (18, 10425), (19, 10434),

Gene: Arib1_39 Start: 30316, Stop: 30549, Start Num: 3

Candidate Starts for Arib1_39:

(1, 29923), (Start: 3 @30316 has 44 MA's), (4, 30337), (8, 30376), (10, 30394), (15, 30490), (21, 30535),

Gene: Ashwin_22 Start: 10468, Stop: 10680, Start Num: 5

Candidate Starts for Ashwin_22:

(Start: 5 @10468 has 29 MA's), (13, 10576), (16, 10627), (18, 10645), (22, 10669),

Gene: Atcoo_39 Start: 30787, Stop: 31020, Start Num: 3

Candidate Starts for Atcoo_39:

(1, 30397), (Start: 3 @30787 has 44 MA's), (9, 30850), (10, 30865), (15, 30961), (21, 31006),

Gene: Bartholomew_38 Start: 30310, Stop: 30543, Start Num: 3

Candidate Starts for Bartholomew_38:

(1, 29920), (Start: 3 @30310 has 44 MA's), (4, 30331), (8, 30370), (10, 30388), (15, 30484), (21, 30529),

Gene: Bhagsy_39 Start: 30302, Stop: 30535, Start Num: 3

Candidate Starts for Bhagsy_39:

(Start: 3 @30302 has 44 MA's), (9, 30365), (10, 30380), (15, 30476), (21, 30521),

Gene: BigNuz_42 Start: 32428, Stop: 32619, Start Num: 7

Candidate Starts for BigNuz_42:

(Start: 7 @32428 has 2 MA's), (12, 32509), (14, 32542), (15, 32560), (21, 32605),

Gene: Blessica_21 Start: 10271, Stop: 10483, Start Num: 5

Candidate Starts for Blessica_21:

(Start: 5 @10271 has 29 MA's), (13, 10379), (16, 10430), (18, 10448), (19, 10457), (22, 10472),

Gene: Bogie_41 Start: 32086, Stop: 32319, Start Num: 3

Candidate Starts for Bogie_41:

(Start: 3 @32086 has 44 MA's), (4, 32107), (9, 32149), (10, 32164), (15, 32260), (21, 32305),

Gene: Bora_21 Start: 10278, Stop: 10478, Start Num: 5

Candidate Starts for Bora_21:

(Start: 5 @10278 has 29 MA's), (13, 10386), (16, 10437), (18, 10455), (19, 10464),

Gene: BronnyJr_39 Start: 30807, Stop: 31040, Start Num: 3

Candidate Starts for BronnyJr_39:

(1, 30417), (Start: 3 @30807 has 44 MA's), (4, 30828), (8, 30867), (10, 30885), (15, 30981), (21, 31026),

Gene: Brusacoram_39 Start: 30293, Stop: 30526, Start Num: 3

Candidate Starts for Brusacoram_39:

(1, 29903), (Start: 3 @30293 has 44 MA's), (9, 30356), (10, 30371), (15, 30467), (21, 30512),

Gene: Bunnies_39 Start: 30317, Stop: 30550, Start Num: 3

Candidate Starts for Bunnies_39:

(Start: 3 @30317 has 44 MA's), (9, 30380), (10, 30395), (15, 30491), (21, 30536),

Gene: CactusJack_39 Start: 30557, Stop: 30790, Start Num: 3

Candidate Starts for CactusJack_39:

(Start: 3 @30557 has 44 MA's), (9, 30620), (10, 30635), (15, 30731), (21, 30776),

Gene: Camster_39 Start: 30333, Stop: 30566, Start Num: 3

Candidate Starts for Camster_39:

(Start: 3 @30333 has 44 MA's), (4, 30354), (9, 30396), (10, 30411), (15, 30507), (21, 30552),

Gene: Catdawg_20 Start: 9877, Stop: 10089, Start Num: 5

Candidate Starts for Catdawg_20:

(Start: 5 @9877 has 29 MA's), (13, 9985), (16, 10036), (18, 10054), (19, 10063), (22, 10078),

Gene: Chubbello_39 Start: 30306, Stop: 30539, Start Num: 3

Candidate Starts for Chubbello_39:

(1, 29916), (Start: 3 @30306 has 44 MA's), (4, 30327), (8, 30366), (10, 30384), (15, 30480), (21, 30525),

Gene: Corndog_23 Start: 10580, Stop: 10780, Start Num: 5

Candidate Starts for Corndog_23:

(Start: 5 @10580 has 29 MA's), (13, 10688), (16, 10739), (18, 10757), (19, 10766),

Gene: Donovan_39 Start: 30333, Stop: 30566, Start Num: 3

Candidate Starts for Donovan_39:

(1, 29940), (Start: 3 @30333 has 44 MA's), (4, 30354), (8, 30393), (10, 30411), (15, 30507), (21, 30552),

Gene: Dylan_21 Start: 10468, Stop: 10680, Start Num: 5

Candidate Starts for Dylan_21:

(Start: 5 @10468 has 29 MA's), (13, 10576), (16, 10627), (18, 10645), (22, 10669),

Gene: Dynamo_39 Start: 30718, Stop: 30951, Start Num: 3

Candidate Starts for Dynamo_39:

(1, 30328), (Start: 3 @30718 has 44 MA's), (4, 30739), (8, 30778), (10, 30796), (15, 30892), (21, 30937),

Gene: Etoile_39 Start: 30310, Stop: 30543, Start Num: 3

Candidate Starts for Etoile_39:

(1, 29920), (Start: 3 @30310 has 44 MA's), (4, 30331), (8, 30370), (10, 30388), (15, 30484), (21, 30529),

Gene: Familton_21 Start: 9878, Stop: 10090, Start Num: 5

Candidate Starts for Familton_21:

(Start: 5 @9878 has 29 MA's), (13, 9986), (16, 10037), (18, 10055), (19, 10064), (22, 10079),

Gene: Firecracker_21 Start: 10201, Stop: 10413, Start Num: 5

Candidate Starts for Firecracker_21:

(Start: 5 @10201 has 29 MA's), (13, 10309), (16, 10360), (18, 10378), (19, 10387), (22, 10402),

Gene: FirstPlacePfu_39 Start: 30342, Stop: 30575, Start Num: 3

Candidate Starts for FirstPlacePfu_39:

(1, 29952), (Start: 3 @30342 has 44 MA's), (4, 30363), (8, 30402), (10, 30420), (15, 30516), (21, 30561),

Gene: Fishburne_39 Start: 30310, Stop: 30543, Start Num: 3

Candidate Starts for Fishburne_39:

(1, 29920), (Start: 3 @30310 has 44 MA's), (4, 30331), (8, 30370), (10, 30388), (15, 30484), (21, 30529),

Gene: FoulBall_20 Start: 9878, Stop: 10090, Start Num: 5

Candidate Starts for FoulBall_20:

(Start: 5 @9878 has 29 MA's), (13, 9986), (16, 10037), (18, 10055), (19, 10064), (22, 10079),

Gene: GaloreK_39 Start: 30306, Stop: 30539, Start Num: 3

Candidate Starts for GaloreK_39:

(1, 29913), (Start: 3 @30306 has 44 MA's), (4, 30327), (8, 30366), (10, 30384), (15, 30480), (21, 30525),

Gene: Gavriela_39 Start: 30557, Stop: 30790, Start Num: 3

Candidate Starts for Gavriela_39:

(Start: 3 @30557 has 44 MA's), (9, 30620), (10, 30635), (15, 30731), (21, 30776),

Gene: Glaske_39 Start: 30557, Stop: 30790, Start Num: 3

Candidate Starts for Glaske_39:

(Start: 3 @30557 has 44 MA's), (9, 30620), (10, 30635), (15, 30731), (21, 30776),

Gene: GreaseLightnin_39 Start: 30546, Stop: 30779, Start Num: 3

Candidate Starts for GreaseLightnin_39:

(1, 30156), (Start: 3 @30546 has 44 MA's), (9, 30609), (10, 30624), (15, 30720), (21, 30765),

Gene: HUHilltop_39 Start: 30343, Stop: 30576, Start Num: 3

Candidate Starts for HUHilltop_39:

(1, 29950), (Start: 3 @30343 has 44 MA's), (4, 30364), (8, 30403), (10, 30421), (15, 30517), (21, 30562),

Gene: Idergollasper_20 Start: 9878, Stop: 10090, Start Num: 5

Candidate Starts for Idergollasper_20:

(Start: 5 @9878 has 29 MA's), (13, 9986), (16, 10037), (18, 10055), (19, 10064), (22, 10079),

Gene: Imara_21 Start: 10131, Stop: 10343, Start Num: 5

Candidate Starts for Imara_21:

(Start: 5 @10131 has 29 MA's), (13, 10239), (16, 10290), (18, 10308), (19, 10317), (22, 10332),

Gene: JangDynasty_20 Start: 9967, Stop: 10179, Start Num: 5

Candidate Starts for JangDynasty_20:

(Start: 5 @9967 has 29 MA's), (13, 10075), (16, 10126), (18, 10144), (19, 10153), (22, 10168),

Gene: Jebeks_40 Start: 30295, Stop: 30528, Start Num: 3

Candidate Starts for Jebeks_40:

(1, 29905), (Start: 3 @30295 has 44 MA's), (4, 30316), (8, 30355), (10, 30373), (15, 30469), (21, 30514),

Gene: Jung_38 Start: 30264, Stop: 30497, Start Num: 3

Candidate Starts for Jung_38:

(Start: 3 @30264 has 44 MA's), (9, 30327), (10, 30342), (15, 30438), (21, 30483),

Gene: Juniormint_39 Start: 30339, Stop: 30572, Start Num: 3

Candidate Starts for Juniormint_39:

(Start: 3 @30339 has 44 MA's), (9, 30402), (10, 30417), (15, 30513), (21, 30558),

Gene: Kari_39 Start: 30307, Stop: 30540, Start Num: 3

Candidate Starts for Kari_39:

(1, 29917), (Start: 3 @30307 has 44 MA's), (4, 30328), (8, 30367), (10, 30385), (15, 30481), (21, 30526),

Gene: KilKor_39 Start: 30557, Stop: 30790, Start Num: 3

Candidate Starts for KilKor_39:

(Start: 3 @30557 has 44 MA's), (9, 30620), (10, 30635), (15, 30731), (21, 30776),

Gene: KingPhillip3_20 Start: 9878, Stop: 10090, Start Num: 5

Candidate Starts for KingPhillip3_20:

(Start: 5 @9878 has 29 MA's), (13, 9986), (16, 10037), (18, 10055), (19, 10064), (22, 10079),

Gene: Krili_21 Start: 10237, Stop: 10449, Start Num: 5

Candidate Starts for Krili_21:

(Start: 5 @10237 has 29 MA's), (13, 10345), (16, 10396), (18, 10414), (19, 10423), (22, 10438),

Gene: Ksquared_39 Start: 30317, Stop: 30550, Start Num: 3

Candidate Starts for Ksquared_39:

(Start: 3 @30317 has 44 MA's), (9, 30380), (10, 30395), (15, 30491), (21, 30536),

Gene: Langerak_39 Start: 30326, Stop: 30559, Start Num: 3

Candidate Starts for Langerak_39:

(1, 29933), (Start: 3 @30326 has 44 MA's), (4, 30347), (8, 30386), (10, 30404), (15, 30500), (21, 30545),

Gene: MadKillah_22 Start: 10270, Stop: 10470, Start Num: 5

Candidate Starts for MadKillah_22:

(Start: 5 @10270 has 29 MA's), (13, 10378), (16, 10429), (18, 10447), (19, 10456),

Gene: Majeke_39 Start: 30351, Stop: 30584, Start Num: 3

Candidate Starts for Majeke_39:

(1, 29958), (Start: 3 @30351 has 44 MA's), (4, 30372), (8, 30411), (10, 30429), (15, 30525), (21, 30570),

Gene: Malithi_39 Start: 30226, Stop: 30459, Start Num: 3

Candidate Starts for Malithi_39:

(1, 29836), (Start: 3 @30226 has 44 MA's), (4, 30247), (8, 30286), (10, 30304), (15, 30400), (21, 30445),

Gene: Mangethe_39 Start: 30351, Stop: 30584, Start Num: 3

Candidate Starts for Mangethe_39:

(1, 29958), (Start: 3 @30351 has 44 MA's), (4, 30372), (8, 30411), (10, 30429), (15, 30525), (21, 30570),

Gene: Megiddo_39 Start: 30557, Stop: 30790, Start Num: 3

Candidate Starts for Megiddo_39:

(Start: 3 @30557 has 44 MA's), (9, 30620), (10, 30635), (15, 30731), (21, 30776),

Gene: MooMoo_55 Start: 38695, Stop: 38898, Start Num: 6

Candidate Starts for MooMoo_55:

(2, 38557), (Start: 6 @38695 has 2 MA's), (10, 38740), (17, 38860),

Gene: Murai_21 Start: 10109, Stop: 10321, Start Num: 5

Candidate Starts for Murai_21:

(Start: 5 @10109 has 29 MA's), (13, 10217), (16, 10268), (18, 10286), (19, 10295), (22, 10310),

Gene: Nazo_43 Start: 32625, Stop: 32816, Start Num: 7

Candidate Starts for Nazo_43:

(Start: 7 @32625 has 2 MA's), (12, 32706), (14, 32739), (15, 32757), (21, 32802),

Gene: Necropolis_39 Start: 30307, Stop: 30540, Start Num: 3

Candidate Starts for Necropolis_39:

(1, 29917), (Start: 3 @30307 has 44 MA's), (4, 30328), (8, 30367), (10, 30385), (15, 30481), (21, 30526),

Gene: NiebruSaylor_21 Start: 10109, Stop: 10321, Start Num: 5

Candidate Starts for NiebruSaylor_21:

(Start: 5 @10109 has 29 MA's), (13, 10217), (16, 10268), (18, 10286), (19, 10295), (22, 10310),

Gene: PaintedDog_45 Start: 32921, Stop: 33154, Start Num: 3

Candidate Starts for PaintedDog_45:

(Start: 3 @32921 has 44 MA's), (8, 32981), (9, 32984), (10, 32999), (11, 33020), (17, 33116), (21, 33140),

Gene: PeanutPie_39 Start: 30302, Stop: 30535, Start Num: 3

Candidate Starts for PeanutPie_39:

(Start: 3 @30302 has 44 MA's), (9, 30365), (10, 30380), (15, 30476), (21, 30521),

Gene: Phalm_39 Start: 30557, Stop: 30790, Start Num: 3

Candidate Starts for Phalm_39:

(Start: 3 @30557 has 44 MA's), (9, 30620), (10, 30635), (15, 30731), (21, 30776),

Gene: Phegasus_39 Start: 30318, Stop: 30551, Start Num: 3

Candidate Starts for Phegasus_39:

(1, 29925), (Start: 3 @30318 has 44 MA's), (4, 30339), (8, 30378), (10, 30396), (15, 30492), (21, 30537),

Gene: Phineas_39 Start: 30678, Stop: 30911, Start Num: 3

Candidate Starts for Phineas_39:

(Start: 3 @30678 has 44 MA's), (4, 30699), (8, 30738), (10, 30756), (15, 30852), (21, 30897),

Gene: Polkaroo_39 Start: 30314, Stop: 30547, Start Num: 3

Candidate Starts for Polkaroo_39:

(Start: 3 @30314 has 44 MA's), (9, 30377), (10, 30392), (15, 30488), (21, 30533),

Gene: Pygmy_41 Start: 32142, Stop: 32375, Start Num: 3

Candidate Starts for Pygmy_41:

(Start: 3 @32142 has 44 MA's), (4, 32163), (9, 32205), (10, 32220), (15, 32316), (21, 32361),

Gene: Ryadel_23 Start: 10691, Stop: 10903, Start Num: 5

Candidate Starts for Ryadel_23:

(Start: 5 @10691 has 29 MA's), (13, 10799), (16, 10850), (18, 10868), (19, 10877), (22, 10892),

Gene: SchoolBus_20 Start: 9878, Stop: 10090, Start Num: 5

Candidate Starts for SchoolBus_20:

(Start: 5 @9878 has 29 MA's), (13, 9986), (16, 10037), (18, 10055), (19, 10064), (22, 10079),

Gene: Schuy_22 Start: 10270, Stop: 10482, Start Num: 5

Candidate Starts for Schuy_22:

(Start: 5 @10270 has 29 MA's), (13, 10378), (16, 10429), (18, 10447), (19, 10456), (22, 10471),

Gene: Shida_21 Start: 10175, Stop: 10387, Start Num: 5

Candidate Starts for Shida_21:

(Start: 5 @10175 has 29 MA's), (13, 10283), (16, 10334), (18, 10352), (19, 10361), (22, 10376),

Gene: Shipwreck_41 Start: 32117, Stop: 32350, Start Num: 3

Candidate Starts for Shipwreck_41:

(Start: 3 @32117 has 44 MA's), (4, 32138), (9, 32180), (10, 32195), (15, 32291), (21, 32336),

Gene: Smooch_22 Start: 10424, Stop: 10624, Start Num: 5

Candidate Starts for Smooch_22:

(Start: 5 @10424 has 29 MA's), (13, 10532), (16, 10583), (18, 10601), (19, 10610),

Gene: Sonah_39 Start: 30296, Stop: 30529, Start Num: 3

Candidate Starts for Sonah_39:

(1, 29906), (Start: 3 @30296 has 44 MA's), (4, 30317), (8, 30356), (10, 30374), (15, 30470), (21, 30515),

Gene: StevieRay_39 Start: 30259, Stop: 30492, Start Num: 3

Candidate Starts for StevieRay_39:

(Start: 3 @30259 has 44 MA's), (9, 30322), (10, 30337), (15, 30433), (21, 30478),

Gene: StressBall_39 Start: 30557, Stop: 30790, Start Num: 3

Candidate Starts for StressBall_39:

(Start: 3 @30557 has 44 MA's), (9, 30620), (10, 30635), (15, 30731), (21, 30776),

Gene: Techage_39 Start: 30336, Stop: 30569, Start Num: 3

Candidate Starts for Techage_39:

(1, 29943), (Start: 3 @30336 has 44 MA's), (4, 30357), (8, 30396), (10, 30414), (15, 30510), (21, 30555),

Gene: TelAviv_20 Start: 9875, Stop: 10087, Start Num: 5

Candidate Starts for TelAviv_20:

(Start: 5 @9875 has 29 MA's), (13, 9983), (16, 10034), (18, 10052), (19, 10061), (22, 10076),

Gene: Thespis_39 Start: 30293, Stop: 30526, Start Num: 3

Candidate Starts for Thespis_39:

(1, 29903), (Start: 3 @30293 has 44 MA's), (9, 30356), (10, 30371), (15, 30467), (21, 30512),

Gene: ThulaThula_46 Start: 34718, Stop: 34912, Start Num: 6

Candidate Starts for ThulaThula_46:

(Start: 6 @34718 has 2 MA's), (9, 34742), (10, 34757), (12, 34802), (20, 34895), (21, 34898),

Gene: Toron_64 Start: 41626, Stop: 41829, Start Num: 6

Candidate Starts for Toron_64:

(Start: 6 @41626 has 2 MA's), (10, 41671), (17, 41791),

Gene: Vagabond_21 Start: 10152, Stop: 10364, Start Num: 5

Candidate Starts for Vagabond_21:

(Start: 5 @10152 has 29 MA's), (13, 10260), (16, 10311), (18, 10329), (19, 10338), (22, 10353),

Gene: Venti_39 Start: 30310, Stop: 30543, Start Num: 3

Candidate Starts for Venti_39:

(1, 29920), (Start: 3 @30310 has 44 MA's), (4, 30331), (8, 30370), (10, 30388), (15, 30484), (21, 30529),

Gene: Vidya_39 Start: 30343, Stop: 30576, Start Num: 3

Candidate Starts for Vidya_39:

(1, 29953), (Start: 3 @30343 has 44 MA's), (4, 30364), (8, 30403), (10, 30421), (15, 30517), (21, 30562),

Gene: Vorrrps_21 Start: 10109, Stop: 10321, Start Num: 5

Candidate Starts for Vorrrps_21:

(Start: 5 @10109 has 29 MA's), (13, 10217), (16, 10268), (18, 10286), (19, 10295), (22, 10310),

Gene: Wildflower_21 Start: 10132, Stop: 10344, Start Num: 5

Candidate Starts for Wildflower_21:

(Start: 5 @10132 has 29 MA's), (13, 10240), (16, 10291), (18, 10309), (22, 10333),

Gene: Willsammy_38 Start: 30040, Stop: 30273, Start Num: 3

Candidate Starts for Willsammy_38:

(Start: 3 @30040 has 44 MA's), (9, 30103), (10, 30118), (15, 30214), (21, 30259),

Gene: Winget_21 Start: 10151, Stop: 10363, Start Num: 5

Candidate Starts for Winget_21:

(Start: 5 @10151 has 29 MA's), (13, 10259), (16, 10310), (18, 10328), (19, 10337), (22, 10352),

Gene: Wogge42_22 Start: 10240, Stop: 10440, Start Num: 5

Candidate Starts for Wogge42_22:

(Start: 5 @10240 has 29 MA's), (13, 10348), (16, 10399), (19, 10426),

Gene: Xeno_41 Start: 29635, Stop: 29868, Start Num: 3

Candidate Starts for Xeno_41:

(1, 29245), (Start: 3 @29635 has 44 MA's), (9, 29698), (10, 29713), (15, 29809), (21, 29854),

Gene: YoyoKar_21 Start: 9879, Stop: 10091, Start Num: 5

Candidate Starts for YoyoKar_21:

(Start: 5 @9879 has 29 MA's), (13, 9987), (16, 10038), (18, 10056), (19, 10065), (22, 10080),

Gene: YungJamal_22 Start: 10460, Stop: 10660, Start Num: 5

Candidate Starts for YungJamal_22:

(Start: 5 @10460 has 29 MA's), (13, 10568), (16, 10619), (18, 10637), (19, 10646),

Gene: Zakhe101_22 Start: 10472, Stop: 10684, Start Num: 5

Candidate Starts for Zakhe101_22:

(Start: 5 @10472 has 29 MA's), (13, 10580), (16, 10631), (18, 10649), (22, 10673),

Gene: Zebo_20 Start: 9878, Stop: 10090, Start Num: 5

Candidate Starts for Zebo_20:

(Start: 5 @9878 has 29 MA's), (13, 9986), (16, 10037), (18, 10055), (19, 10064), (22, 10079),

Gene: Zilizebeth_39 Start: 30342, Stop: 30575, Start Num: 3

Candidate Starts for Zilizebeth_39:

(1, 29952), (Start: 3 @30342 has 44 MA's), (4, 30363), (8, 30402), (10, 30420), (15, 30516), (21, 30561),