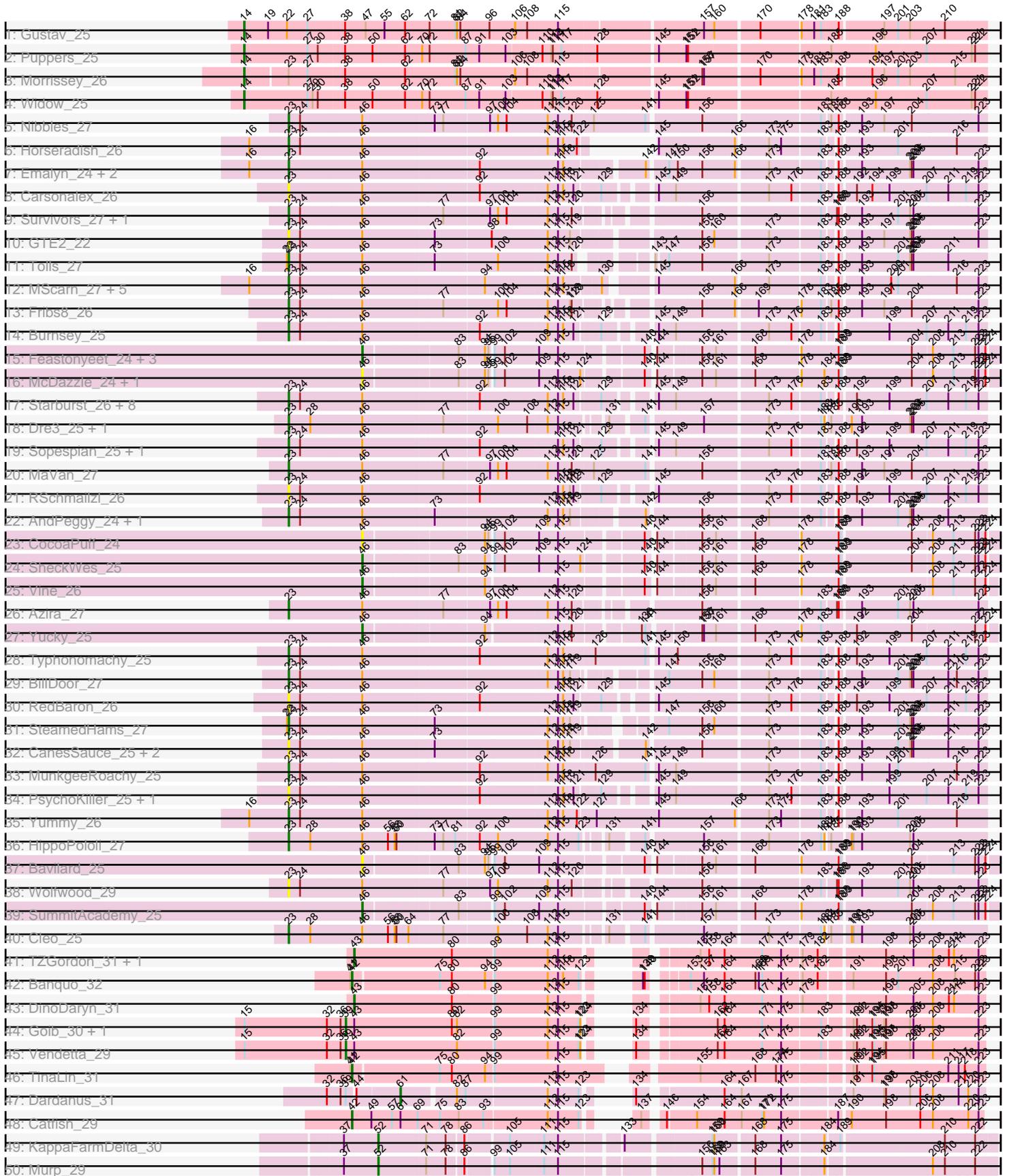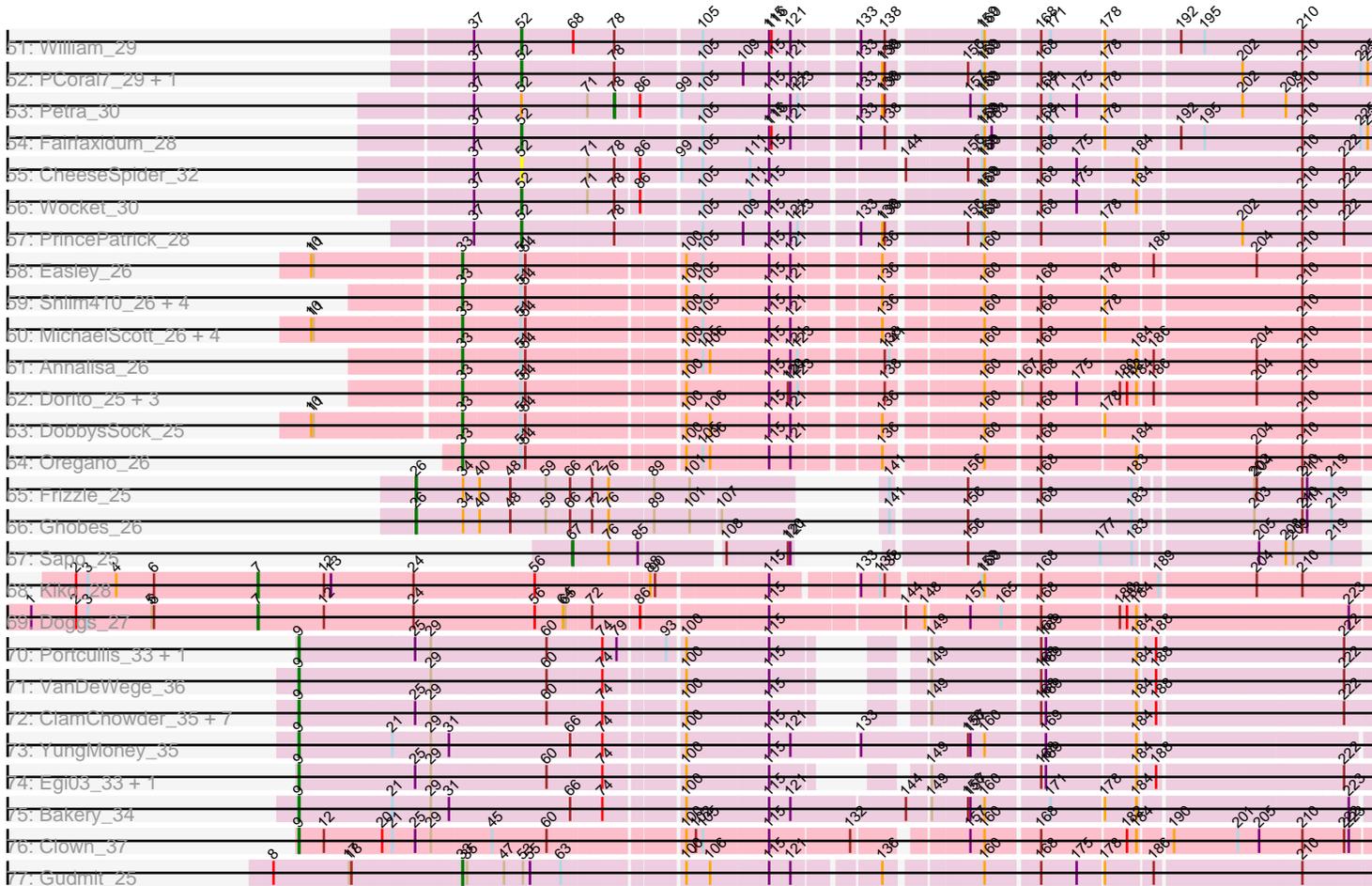# Pham 283609

Pham 283609

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 283609 Report

This analysis was run 02/23/26 on database version 636.

Pham number 283609 has 126 members, 23 are drafts.

Phages represented in each track:
• Track 1 : Gustav_25
• Track 2 : Puppers_25
• Track 3 : Morrissey_26
• Track 4 : Widow_25
• Track 5 : Nibbles_27
• Track 6 : Horseradish_26
• Track 7 : Emalyn_24, Amok_24, AikoCarson_24
• Track 8 : Carsonalex_26
• Track 9 : Survivors_27, Zareef_27
• Track 10 : GTE2_22
• Track 11 : Tolls_27
• Track 12 : MScarn_27, Blondies_26, Biskit_26, Buttrmlkdreams_25, SketchMex_24, Troje_25
• Track 13 : Fribs8_26
• Track 14 : Burnsey_25
• Track 15 : Feastonyeet_24, Balloona_24, PotPie_25, BigChungus_24
• Track 16 : McDazzle_24, ElJefes_24
• Track 17 : Starburst_26, Axym_25, RADical_26, Agatha_25, GoldHunter_26, Cozz_25, Socotra_26, Bubble_25, Quasar_25
• Track 18 : Dre3_25, Gibbous_25
• Track 19 : Sopespian_25, Nina_26
• Track 20 : MaVan_27
• Track 21 : RSchmailzl_26
• Track 22 : AndPeggy_24, Yarn_24
• Track 23 : CocoaPuff_24
• Track 24 : SheckWes_25
• Track 25 : Vine_26
• Track 26 : Azira_27
• Track 27 : Yucky_25
• Track 28 : Typhonomachy_25
• Track 29 : BillDoor_27
• Track 30 : RedBaron_26
• Track 31 : SteamedHams_27
• Track 32 : CanesSauce_25, CaramelLatte_25, ChocoMunchkin_25
• Track 33 : MunkgeeRoachy_25
• Track 34 : PsychoKiller_25, Eliott_25
• Track 35 : Yummy_26

- Track 36 : HippoPololi_27
- Track 37 : Bavilard_25
- Track 38 : Wolfwood_29
- Track 39 : SummitAcademy_25
- Track 40 : Cleo_25
- Track 41 : TZGordon_31, Huffy_31
- Track 42 : Banquo_32
- Track 43 : DinoDaryn_31
- Track 44 : Goib_30, Splinter_29
- Track 45 : Vendetta_29
- Track 46 : TinaLin_31
- Track 47 : Dardanus_31
- Track 48 : Catfish_29
- Track 49 : KappaFarmDelta_30
- Track 50 : Murp_29
- Track 51 : William_29
- Track 52 : PCoral7_29, Toast_29
- Track 53 : Petra_30
- Track 54 : Fairfaxidum_28
- Track 55 : CheeseSpider_32
- Track 56 : Wocket_30
- Track 57 : PrincePatrick_28
- Track 58 : Easley_26
- Track 59 : Shlim410_26, Adora_26, Howe_26, Hortense_26, Twinkle_26
- Track 60 : MichaelScott_26, Dolores_26, Clark_26, WinkNick_26, Mcklovin_26
- Track 61 : Annalisa_26
- Track 62 : Dorito_25, Sekhmet_26, Samman98_26, PhriskyACE_25
- Track 63 : DobbysSock_25
- Track 64 : Oregano_26
- Track 65 : Frizzle_25
- Track 66 : Ghobes_26
- Track 67 : Sapo_25
- Track 68 : Kiko_28
- Track 69 : Doggs_27
- Track 70 : Portcullis_33, Shinji_33
- Track 71 : VanDeWege_36
- Track 72 : ClamChowder_35, Fugax_35, PinkCoffee_35, Barb_35, CoveyB_35, Twister6_35, Arri_36, Danyall_35
- Track 73 : YungMoney_35
- Track 74 : Egi03_33, RogerDodger_36
- Track 75 : Bakery_34
- Track 76 : Clown_37
- Track 77 : Gudmit_25

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

The start number called the most often in the published annotations is 23, it was called in 35 of the 103 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Agatha_25, AikoCarson_24, Amok_24, AndPeggy_24, Axym_25, Azira_27, BillDoor_27, Biskit_26, Blondies_26, Bubble_25, Burnsey_25, Buttrmlkdreams_25, CanesSauce_25, CaramelLatte_25, Carsonalex_26, ChocoMunchkin_25, Cleo_25, Cozz_25, Dre3_25, Eliott_25, Emalyn_24, Fribs8_26, GTE2_22, Gibbous_25, GoldHunter_26, HippoPololi_27, Horseradish_26, MScarn_27, MaVan_27, MunkgeeRoachy_25, Nibbles_27, Nina_26, PsychoKiller_25, Quasar_25, RADical_26, RSchmailzl_26, RedBaron_26, SketchMex_24, Socotra_26, Sopespian_25, Starburst_26, SteamedHams_27, Survivors_27, Tolls_27, Troje_25, Typhonomachy_25, Wolfwood_29, Yarn_24, Yummy_26, Zareef_27,

Genes that have the "Most Annotated" start but do not call it:
• Morrissey_26,

Genes that do not have the "Most Annotated" start:
• Adora_26, Annalisa_26, Arri_36, Bakery_34, Balloona_24, Banquo_32, Barb_35, Bavilard_25, BigChungus_24, Catfish_29, CheeseSpider_32, ClamChowder_35, Clark_26, Clown_37, CocoaPuff_24, CoveyB_35, Danyall_35, Dardanus_31, DinoDaryn_31, DobbysSock_25, Doggs_27, Dolores_26, Dorito_25, Easley_26, Egi03_33, ElJefes_24, Fairfaxidum_28, Feastonyeet_24, Frizzle_25, Fugax_35, Ghobes_26, Goib_30, Gudmit_25, Gustav_25, Hortense_26, Howe_26, Huffy_31, KappaFarmDelta_30, Kiko_28, McDazzle_24, Mcklovin_26, MichaelScott_26, Murp_29, Oregano_26, PCoral7_29, Petra_30, PhriskyACE_25, PinkCoffee_35, Portcullis_33, PotPie_25, PrincePatrick_28, Puppers_25, RogerDodger_36, Samman98_26, Sapo_25, Sekhmet_26, SheckWes_25, Shinji_33, Shlim410_26, Splinter_29, SummitAcademy_25, TZGordon_31, TinaLin_31, Toast_29, Twinkle_26, Twister6_35, VanDeWege_36, Vendetta_29, Vine_26, Widow_25, William_29, WinkNick_26, Wocket_30, Yucky_25, YungMoney_35,

Summary by start number:

Start 7:
• Found in 2 of 126 (1.6%) of genes in pham
• Manual Annotations of this start: 2 of 103
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Doggs_27 (DB), Kiko_28 (DB),

Start 9:
• Found in 16 of 126 (12.7%) of genes in pham
• Manual Annotations of this start: 15 of 103
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arri_36 (DC1), Bakery_34 (DC1), Barb_35 (DC1), ClamChowder_35 (DC1), Clown_37 (DC2), CoveyB_35 (DC1), Danyall_35 (DC1), Egi03_33 (DC1), Fugax_35 (DC1), PinkCoffee_35 (DC1), Portcullis_33 (DC1), RogerDodger_36 (DC1), Shinji_33 (DC1), Twister6_35 (DC1), VanDeWege_36 (DC1), YungMoney_35 (DC1),

Start 14:
• Found in 4 of 126 (3.2%) of genes in pham
• Manual Annotations of this start: 4 of 103
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gustav_25 (CD), Morrissey_26 (CD), Puppers_25 (CD), Widow_25 (CD),

Start 23:
• Found in 51 of 126 (40.5%) of genes in pham
• Manual Annotations of this start: 35 of 103
• Called 98.0% of time when present
• Phage (with cluster) where this start called: Agatha_25 (CT), AikoCarson_24 (CT), Amok_24 (CT), AndPeggy_24 (CT), Axym_25 (CT), Azira_27 (CT), BillDoor_27 (CT), Biskit_26 (CT), Blondies_26 (CT), Bubble_25 (CT), Burnsey_25 (CT), Buttrmlkdreams_25 (CT), CanesSauce_25 (CT), CaramelLatte_25 (CT), Carsonalex_26 (CT), ChocoMunchkin_25 (CT), Cleo_25 (CT), Cozz_25 (CT), Dre3_25 (CT), Eliott_25 (CT), Emalyn_24 (CT), Fribs8_26 (CT), GTE2_22 (CT), Gibbous_25 (CT), GoldHunter_26 (CT), HippoPololi_27 (CT), Horseradish_26 (CT), MScarn_27 (CT), MaVan_27 (CT), MunkgeeRoachy_25 (CT), Nibbles_27 (CT), Nina_26 (CT), PsychoKiller_25 (CT), Quasar_25 (CT), RADical_26 (CT), RSchmailzl_26 (CT), RedBaron_26 (CT), SketchMex_24 (CT), Socotra_26 (CT), Sopespian_25 (CT), Starburst_26 (CT), SteamedHams_27 (CT), Survivors_27 (CT), Tolls_27 (CT), Troje_25 (CT), Typhonomachy_25 (CT), Wolfwood_29 (CT), Yarn_24 (CT), Yummy_26 (CT), Zareef_27 (CT),

Start 26:
• Found in 2 of 126 (1.6%) of genes in pham
• Manual Annotations of this start: 2 of 103
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Frizzle_25 (DA), Ghobes_26 (DA),

Start 33:
• Found in 19 of 126 (15.1%) of genes in pham
• Manual Annotations of this start: 18 of 103
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Adora_26 (CZ4), Annalisa_26 (CZ4), Clark_26 (CZ4), DobbysSock_25 (CZ4), Dolores_26 (CZ4), Dorito_25 (CZ4), Easley_26 (CZ4), Gudmit_25 (singleton), Hortense_26 (CZ4), Howe_26 (CZ4), Mcklovin_26 (CZ4), MichaelScott_26 (CZ4), Oregano_26 (CZ4), PhriskyACE_25 (CZ4), Samman98_26 (CZ4), Sekhmet_26 (CZ4), Shlim410_26 (CZ4), Twinkle_26 (CZ4), WinkNick_26 (CZ4),

Start 39:
• Found in 4 of 126 (3.2%) of genes in pham
• Manual Annotations of this start: 3 of 103
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Goib_30 (CU1), Splinter_29 (CU1), Vendetta_29 (CU1),

Start 42:
• Found in 3 of 126 (2.4%) of genes in pham
• Manual Annotations of this start: 3 of 103
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Banquo_32 (CU1), Catfish_29 (CU5), TinaLin_31 (CU1),

Start 43:
• Found in 6 of 126 (4.8%) of genes in pham
• Manual Annotations of this start: 3 of 103
• Called 50.0% of time when present

• Phage (with cluster) where this start called: DinoDaryn_31 (CU1), Huffy_31 (CU1), TZGordon_31 (CU1),

Start 46:
• Found in 62 of 126 (49.2%) of genes in pham
• Manual Annotations of this start: 7 of 103
• Called 19.4% of time when present
• Phage (with cluster) where this start called: Balloona_24 (CT), Bavilard_25 (CT), BigChungus_24 (CT), CocoaPuff_24 (CT), ElJefes_24 (CT), Feastonyeet_24 (CT), McDazzle_24 (CT), PotPie_25 (CT), SheckWes_25 (CT), SummitAcademy_25 (CT), Vine_26 (CT), Yucky_25 (CT),

Start 52:
• Found in 10 of 126 (7.9%) of genes in pham
• Manual Annotations of this start: 8 of 103
• Called 90.0% of time when present
• Phage (with cluster) where this start called: CheeseSpider_32 (CV), Fairfaxidum_28 (CV), KappaFarmDelta_30 (CV), Murp_29 (CV), PCoral7_29 (CV), PrincePatrick_28 (CV), Toast_29 (CV), William_29 (CV), Wocket_30 (CV),

Start 61:
• Found in 2 of 126 (1.6%) of genes in pham
• Manual Annotations of this start: 1 of 103
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Dardanus_31 (CU3),

Start 67:
• Found in 1 of 126 (0.8%) of genes in pham
• Manual Annotations of this start: 1 of 103
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sapo_25 (DA),

Start 78:
• Found in 9 of 126 (7.1%) of genes in pham
• Manual Annotations of this start: 1 of 103
• Called 11.1% of time when present
• Phage (with cluster) where this start called: Petra_30 (CV),

Summary by clusters:

There are 12 clusters represented in this pham: singleton, DA, CU1, DB, CU5, CZ4, CD, CU3, CT, DC2, CV, DC1,

Info for manual annotations of cluster CD:
•Start number 14 was manually annotated 4 times for cluster CD.

Info for manual annotations of cluster CT:
•Start number 23 was manually annotated 35 times for cluster CT.
•Start number 46 was manually annotated 7 times for cluster CT.

Info for manual annotations of cluster CU1:
•Start number 39 was manually annotated 3 times for cluster CU1.
•Start number 42 was manually annotated 2 times for cluster CU1.

•Start number 43 was manually annotated 3 times for cluster CU1.

Info for manual annotations of cluster CU3:
•Start number 61 was manually annotated 1 time for cluster CU3.

Info for manual annotations of cluster CU5:
•Start number 42 was manually annotated 1 time for cluster CU5.

Info for manual annotations of cluster CV:
•Start number 52 was manually annotated 8 times for cluster CV.
•Start number 78 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster CZ4:
•Start number 33 was manually annotated 17 times for cluster CZ4.

Info for manual annotations of cluster DA:
•Start number 26 was manually annotated 2 times for cluster DA.
•Start number 67 was manually annotated 1 time for cluster DA.

Info for manual annotations of cluster DB:
•Start number 7 was manually annotated 2 times for cluster DB.

Info for manual annotations of cluster DC1:
•Start number 9 was manually annotated 14 times for cluster DC1.

Info for manual annotations of cluster DC2:
•Start number 9 was manually annotated 1 time for cluster DC2.

Gene Information:
Gene: Adora_26 Start: 22572, Stop: 23609, Start Num: 33
Candidate Starts for Adora_26:
(Start: 33 @22572 has 18 MA's), (51, 22641), (54, 22647), (100, 22827), (105, 22848), (115, 22929), (121, 22956), (136, 23049), (160, 23157), (168, 23220), (178, 23295), (210, 23526),

Gene: Agatha_25 Start: 20517, Stop: 21614, Start Num: 23
Candidate Starts for Agatha_25:
(Start: 23 @20517 has 35 MA's), (24, 20535), (Start: 46 @20640 has 7 MA's), (92, 20838), (112, 20952), (115, 20970), (118, 20979), (121, 20997), (129, 21033), (145, 21093), (149, 21123), (173, 21273), (176, 21312), (183, 21357), (188, 21375), (192, 21399), (199, 21456), (207, 21516), (211, 21552), (219, 21582), (223, 21603),

Gene: AikoCarson_24 Start: 19778, Stop: 20890, Start Num: 23
Candidate Starts for AikoCarson_24:
(16, 19709), (Start: 23 @19778 has 35 MA's), (Start: 46 @19901 has 7 MA's), (92, 20099), (115, 20231), (118, 20240), (142, 20357), (147, 20387), (150, 20402), (156, 20441), (166, 20498), (173, 20549), (183, 20633), (188, 20651), (193, 20684), (203, 20765), (204, 20768), (205, 20771), (223, 20879),

Gene: Amok_24 Start: 19775, Stop: 20848, Start Num: 23
Candidate Starts for Amok_24:

(16, 19706), (Start: 23 @19775 has 35 MA's), (Start: 46 @19898 has 7 MA's), (92, 20096), (115, 20228), (118, 20237), (142, 20315), (147, 20345), (150, 20360), (156, 20399), (166, 20456), (173, 20507), (183, 20591), (188, 20609), (193, 20642), (203, 20723), (204, 20726), (205, 20729), (223, 20837),

Gene: AndPeggy_24 Start: 20180, Stop: 21292, Start Num: 23
Candidate Starts for AndPeggy_24:
(Start: 23 @20180 has 35 MA's), (24, 20198), (Start: 46 @20303 has 7 MA's), (73, 20426), (112, 20615), (115, 20633), (118, 20642), (119, 20654), (142, 20759), (156, 20843), (173, 20951), (183, 21035), (188, 21053), (193, 21086), (201, 21149), (203, 21167), (204, 21170), (205, 21173), (211, 21230),

Gene: Annalisa_26 Start: 22034, Stop: 23074, Start Num: 33
Candidate Starts for Annalisa_26:
(Start: 33 @22034 has 18 MA's), (51, 22103), (54, 22109), (100, 22289), (105, 22310), (106, 22319), (115, 22391), (121, 22418), (123, 22427), (138, 22514), (141, 22520), (160, 22619), (168, 22682), (184, 22796), (186, 22811), (204, 22934), (210, 22991),

Gene: Arri_36 Start: 28916, Stop: 30088, Start Num: 9
Candidate Starts for Arri_36:
(Start: 9 @28916 has 15 MA's), (25, 29057), (29, 29075), (60, 29210), (74, 29276), (100, 29363), (115, 29465), (149, 29570), (168, 29696), (169, 29702), (184, 29810), (188, 29828), (222, 30053),

Gene: Axym_25 Start: 20517, Stop: 21614, Start Num: 23
Candidate Starts for Axym_25:
(Start: 23 @20517 has 35 MA's), (24, 20535), (Start: 46 @20640 has 7 MA's), (92, 20838), (112, 20952), (115, 20970), (118, 20979), (121, 20997), (129, 21033), (145, 21093), (149, 21123), (173, 21273), (176, 21312), (183, 21357), (188, 21375), (192, 21399), (199, 21456), (207, 21516), (211, 21552), (219, 21582), (223, 21603),

Gene: Azira_27 Start: 21488, Stop: 22588, Start Num: 23
Candidate Starts for Azira_27:
(Start: 23 @21488 has 35 MA's), (Start: 46 @21611 has 7 MA's), (77, 21749), (97, 21827), (100, 21839), (104, 21854), (112, 21923), (115, 21941), (120, 21965), (156, 22133), (183, 22325), (186, 22346), (188, 22349), (193, 22382), (201, 22445), (203, 22463), (205, 22469), (223, 22577),

Gene: Bakery_34 Start: 28127, Stop: 29377, Start Num: 9
Candidate Starts for Bakery_34:
(Start: 9 @28127 has 15 MA's), (21, 28241), (29, 28286), (31, 28307), (66, 28451), (74, 28487), (100, 28574), (115, 28676), (121, 28703), (144, 28838), (149, 28865), (156, 28907), (157, 28910), (160, 28928), (171, 29003), (178, 29066), (184, 29105), (223, 29354),

Gene: Balloona_24 Start: 20277, Stop: 21269, Start Num: 46
Candidate Starts for Balloona_24:
(Start: 46 @20277 has 7 MA's), (83, 20424), (94, 20466), (95, 20472), (99, 20475), (102, 20493), (109, 20550), (115, 20583), (140, 20712), (144, 20721), (156, 20790), (161, 20814), (168, 20874), (178, 20949), (188, 21009), (189, 21012), (204, 21129), (208, 21162), (213, 21198), (222, 21234), (223, 21240), (224, 21252),

Gene: Banquo_32 Start: 23108, Stop: 24055, Start Num: 42
Candidate Starts for Banquo_32:
(41, 23105), (Start: 42 @23108 has 3 MA's), (75, 23255), (80, 23276), (94, 23333), (99, 23345), (112, 23438), (115, 23456), (118, 23465), (123, 23492), (139, 23525), (140, 23528), (153, 23576), (157,

23597), (164, 23633), (168, 23684), (169, 23690), (171, 23696), (175, 23729), (179, 23762), (182, 23786), (191, 23834), (198, 23891), (201, 23912), (208, 23969), (215, 24008), (222, 24041), (223, 24047),

Gene: Barb_35 Start: 28934, Stop: 30106, Start Num: 9
Candidate Starts for Barb_35:
(Start: 9 @28934 has 15 MA's), (25, 29075), (29, 29093), (60, 29228), (74, 29294), (100, 29381), (115, 29483), (149, 29588), (168, 29714), (169, 29720), (184, 29828), (188, 29846), (222, 30071),

Gene: Bavilard_25 Start: 21062, Stop: 22054, Start Num: 46
Candidate Starts for Bavilard_25:
(Start: 46 @21062 has 7 MA's), (83, 21209), (94, 21251), (95, 21257), (99, 21260), (102, 21278), (109, 21335), (115, 21368), (140, 21497), (144, 21506), (156, 21575), (161, 21599), (168, 21659), (178, 21734), (188, 21794), (189, 21797), (204, 21914), (213, 21983), (222, 22019), (223, 22025), (224, 22037),

Gene: BigChungus_24 Start: 20320, Stop: 21312, Start Num: 46
Candidate Starts for BigChungus_24:
(Start: 46 @20320 has 7 MA's), (83, 20467), (94, 20509), (95, 20515), (99, 20518), (102, 20536), (109, 20593), (115, 20626), (140, 20755), (144, 20764), (156, 20833), (161, 20857), (168, 20917), (178, 20992), (188, 21052), (189, 21055), (204, 21172), (208, 21205), (213, 21241), (222, 21277), (223, 21283), (224, 21295),

Gene: BillDoor_27 Start: 20148, Stop: 21239, Start Num: 23
Candidate Starts for BillDoor_27:
(Start: 23 @20148 has 35 MA's), (24, 20166), (Start: 46 @20271 has 7 MA's), (112, 20583), (115, 20601), (118, 20610), (119, 20622), (147, 20736), (156, 20790), (160, 20811), (173, 20898), (183, 20982), (188, 21000), (193, 21033), (201, 21096), (203, 21114), (204, 21117), (205, 21120), (211, 21177), (216, 21192), (223, 21228),

Gene: Biskit_26 Start: 20168, Stop: 21265, Start Num: 23
Candidate Starts for Biskit_26:
(16, 20099), (Start: 23 @20168 has 35 MA's), (24, 20186), (Start: 46 @20291 has 7 MA's), (94, 20498), (112, 20603), (115, 20621), (118, 20630), (130, 20684), (145, 20744), (166, 20873), (173, 20924), (183, 21008), (188, 21026), (193, 21059), (200, 21110), (201, 21122), (216, 21218), (223, 21254),

Gene: Blondies_26 Start: 20151, Stop: 21248, Start Num: 23
Candidate Starts for Blondies_26:
(16, 20082), (Start: 23 @20151 has 35 MA's), (24, 20169), (Start: 46 @20274 has 7 MA's), (94, 20481), (112, 20586), (115, 20604), (118, 20613), (130, 20667), (145, 20727), (166, 20856), (173, 20907), (183, 20991), (188, 21009), (193, 21042), (200, 21093), (201, 21105), (216, 21201), (223, 21237),

Gene: Bubble_25 Start: 20517, Stop: 21614, Start Num: 23
Candidate Starts for Bubble_25:
(Start: 23 @20517 has 35 MA's), (24, 20535), (Start: 46 @20640 has 7 MA's), (92, 20838), (112, 20952), (115, 20970), (118, 20979), (121, 20997), (129, 21033), (145, 21093), (149, 21123), (173, 21273), (176, 21312), (183, 21357), (188, 21375), (192, 21399), (199, 21456), (207, 21516), (211, 21552), (219, 21582), (223, 21603),

Gene: Burnsey_25 Start: 20518, Stop: 21615, Start Num: 23
Candidate Starts for Burnsey_25:
(Start: 23 @20518 has 35 MA's), (24, 20536), (Start: 46 @20641 has 7 MA's), (92, 20839), (112, 20953), (115, 20971), (118, 20980), (121, 20998), (129, 21034), (145, 21094), (149, 21124), (173,

21274), (176, 21313), (183, 21358), (188, 21376), (199, 21457), (207, 21517), (211, 21553), (219, 21583), (223, 21604),

Gene: Buttrmlkdreams_25 Start: 20150, Stop: 21247, Start Num: 23
Candidate Starts for Buttrmlkdreams_25:
(16, 20081), (Start: 23 @20150 has 35 MA's), (24, 20168), (Start: 46 @20273 has 7 MA's), (94, 20480), (112, 20585), (115, 20603), (118, 20612), (130, 20666), (145, 20726), (166, 20855), (173, 20906), (183, 20990), (188, 21008), (193, 21041), (200, 21092), (201, 21104), (216, 21200), (223, 21236),

Gene: CanesSauce_25 Start: 20181, Stop: 21293, Start Num: 23
Candidate Starts for CanesSauce_25:
(Start: 23 @20181 has 35 MA's), (24, 20199), (Start: 46 @20304 has 7 MA's), (73, 20427), (112, 20616), (115, 20634), (118, 20643), (119, 20655), (142, 20760), (156, 20844), (173, 20952), (183, 21036), (188, 21054), (193, 21087), (201, 21150), (203, 21168), (204, 21171), (205, 21174), (211, 21231), (223, 21282),

Gene: CaramelLatte_25 Start: 20181, Stop: 21293, Start Num: 23
Candidate Starts for CaramelLatte_25:
(Start: 23 @20181 has 35 MA's), (24, 20199), (Start: 46 @20304 has 7 MA's), (73, 20427), (112, 20616), (115, 20634), (118, 20643), (119, 20655), (142, 20760), (156, 20844), (173, 20952), (183, 21036), (188, 21054), (193, 21087), (201, 21150), (203, 21168), (204, 21171), (205, 21174), (211, 21231), (223, 21282),

Gene: Carsonalex_26 Start: 20575, Stop: 21672, Start Num: 23
Candidate Starts for Carsonalex_26:
(Start: 23 @20575 has 35 MA's), (Start: 46 @20698 has 7 MA's), (92, 20896), (112, 21010), (115, 21028), (118, 21037), (121, 21055), (129, 21091), (145, 21151), (149, 21181), (173, 21331), (176, 21370), (183, 21415), (188, 21433), (192, 21457), (194, 21484), (199, 21514), (207, 21574), (211, 21610), (219, 21640), (223, 21661),

Gene: Catfish_29 Start: 24416, Stop: 25366, Start Num: 42
Candidate Starts for Catfish_29:
(Start: 42 @24416 has 3 MA's), (49, 24446), (57, 24482), (Start: 61 @24497 has 1 MA's), (69, 24527), (75, 24566), (83, 24599), (93, 24641), (112, 24749), (115, 24767), (123, 24803), (137, 24830), (146, 24854), (154, 24896), (164, 24944), (167, 24971), (171, 25007), (172, 25010), (175, 25040), (187, 25127), (190, 25142), (198, 25202), (206, 25259), (208, 25280), (220, 25340), (223, 25358),

Gene: CheeseSpider_32 Start: 23943, Stop: 24920, Start Num: 52
Candidate Starts for CheeseSpider_32:
(37, 23883), (Start: 52 @23943 has 8 MA's), (71, 24024), (Start: 78 @24057 has 1 MA's), (86, 24084), (99, 24123), (105, 24150), (111, 24207), (115, 24231), (144, 24369), (156, 24444), (159, 24462), (160, 24465), (168, 24528), (175, 24573), (184, 24642), (210, 24834), (222, 24885),

Gene: ChocoMunchkin_25 Start: 20181, Stop: 21293, Start Num: 23
Candidate Starts for ChocoMunchkin_25:
(Start: 23 @20181 has 35 MA's), (24, 20199), (Start: 46 @20304 has 7 MA's), (73, 20427), (112, 20616), (115, 20634), (118, 20643), (119, 20655), (142, 20760), (156, 20844), (173, 20952), (183, 21036), (188, 21054), (193, 21087), (201, 21150), (203, 21168), (204, 21171), (205, 21174), (211, 21231), (223, 21282),

Gene: ClamChowder_35 Start: 28934, Stop: 30106, Start Num: 9
Candidate Starts for ClamChowder_35:

(Start: 9 @28934 has 15 MA's), (25, 29075), (29, 29093), (60, 29228), (74, 29294), (100, 29381), (115, 29483), (149, 29588), (168, 29714), (169, 29720), (184, 29828), (188, 29846), (222, 30071),

Gene: Clark_26 Start: 22034, Stop: 23071, Start Num: 33
Candidate Starts for Clark_26:
(10, 21863), (11, 21866), (Start: 33 @22034 has 18 MA's), (51, 22103), (54, 22109), (100, 22289), (105, 22310), (115, 22391), (121, 22418), (136, 22511), (160, 22619), (168, 22682), (178, 22757), (210, 22988),

Gene: Cleo_25 Start: 20832, Stop: 21935, Start Num: 23
Candidate Starts for Cleo_25:
(Start: 23 @20832 has 35 MA's), (28, 20868), (Start: 46 @20955 has 7 MA's), (56, 21000), (58, 21012), (60, 21015), (64, 21036), (77, 21093), (100, 21183), (108, 21234), (112, 21267), (115, 21285), (131, 21348), (141, 21396), (157, 21483), (173, 21588), (183, 21672), (184, 21678), (185, 21684), (190, 21711), (191, 21714), (193, 21729), (203, 21810), (205, 21816),

Gene: Clown_37 Start: 30957, Stop: 32189, Start Num: 9
Candidate Starts for Clown_37:
(Start: 9 @30957 has 15 MA's), (12, 30987), (20, 31059), (21, 31071), (25, 31098), (29, 31116), (45, 31185), (60, 31251), (100, 31404), (102, 31416), (105, 31425), (115, 31506), (132, 31602), (157, 31719), (160, 31737), (168, 31800), (182, 31902), (184, 31914), (190, 31947), (201, 32028), (205, 32052), (210, 32106), (222, 32157), (223, 32163),

Gene: CocoaPuff_24 Start: 20274, Stop: 21266, Start Num: 46
Candidate Starts for CocoaPuff_24:
(Start: 46 @20274 has 7 MA's), (94, 20463), (95, 20469), (99, 20472), (102, 20490), (109, 20547), (115, 20580), (140, 20709), (144, 20718), (156, 20787), (161, 20811), (168, 20871), (178, 20946), (188, 21006), (189, 21009), (204, 21126), (208, 21159), (213, 21195), (222, 21231), (223, 21237), (224, 21249),

Gene: CoveyB_35 Start: 28734, Stop: 29906, Start Num: 9
Candidate Starts for CoveyB_35:
(Start: 9 @28734 has 15 MA's), (25, 28875), (29, 28893), (60, 29028), (74, 29094), (100, 29181), (115, 29283), (149, 29388), (168, 29514), (169, 29520), (184, 29628), (188, 29646), (222, 29871),

Gene: Cozz_25 Start: 20518, Stop: 21615, Start Num: 23
Candidate Starts for Cozz_25:
(Start: 23 @20518 has 35 MA's), (24, 20536), (Start: 46 @20641 has 7 MA's), (92, 20839), (112, 20953), (115, 20971), (118, 20980), (121, 20998), (129, 21034), (145, 21094), (149, 21124), (173, 21274), (176, 21313), (183, 21358), (188, 21376), (192, 21400), (199, 21457), (207, 21517), (211, 21553), (219, 21583), (223, 21604),

Gene: Danyall_35 Start: 28734, Stop: 29906, Start Num: 9
Candidate Starts for Danyall_35:
(Start: 9 @28734 has 15 MA's), (25, 28875), (29, 28893), (60, 29028), (74, 29094), (100, 29181), (115, 29283), (149, 29388), (168, 29514), (169, 29520), (184, 29628), (188, 29646), (222, 29871),

Gene: Dardanus_31 Start: 23524, Stop: 24384, Start Num: 61
Candidate Starts for Dardanus_31:
(32, 23410), (36, 23434), (Start: 39 @23443 has 3 MA's), (44, 23455), (Start: 61 @23524 has 1 MA's), (82, 23611), (87, 23626), (112, 23764), (115, 23782), (123, 23818), (134, 23836), (164, 23959), (167, 23986), (175, 24055), (191, 24160), (197, 24214), (198, 24217), (203, 24256), (206, 24274), (208, 24295), (217, 24340), (220, 24355), (223, 24373),

Gene: DinoDaryn_31 Start: 22562, Stop: 23509, Start Num: 43
Candidate Starts for DinoDaryn_31:
(Start: 43 @22562 has 3 MA's), (80, 22733), (99, 22802), (112, 22895), (115, 22913), (155, 23045), (158, 23060), (164, 23087), (171, 23150), (175, 23183), (179, 23216), (198, 23345), (205, 23390), (208, 23420), (212, 23447), (214, 23456), (223, 23498),

Gene: DobbysSock_25 Start: 21508, Stop: 22545, Start Num: 33
Candidate Starts for DobbysSock_25:
(10, 21337), (11, 21340), (Start: 33 @21508 has 18 MA's), (51, 21577), (54, 21583), (100, 21763), (106, 21793), (115, 21865), (121, 21892), (136, 21985), (160, 22093), (168, 22156), (178, 22231), (210, 22462),

Gene: Doggs_27 Start: 22931, Stop: 24244, Start Num: 7
Candidate Starts for Doggs_27:
(1, 22643), (2, 22700), (3, 22715), (5, 22796), (6, 22799), (Start: 7 @22931 has 2 MA's), (12, 23015), (24, 23129), (56, 23282), (64, 23318), (65, 23321), (72, 23351), (86, 23405), (115, 23549), (144, 23705), (148, 23729), (157, 23777), (165, 23816), (168, 23858), (180, 23951), (182, 23960), (184, 23972), (223, 24221),

Gene: Dolores_26 Start: 22010, Stop: 23047, Start Num: 33
Candidate Starts for Dolores_26:
(10, 21839), (11, 21842), (Start: 33 @22010 has 18 MA's), (51, 22079), (54, 22085), (100, 22265), (105, 22286), (115, 22367), (121, 22394), (136, 22487), (160, 22595), (168, 22658), (178, 22733), (210, 22964),

Gene: Dorito_25 Start: 21473, Stop: 22513, Start Num: 33
Candidate Starts for Dorito_25:
(Start: 33 @21473 has 18 MA's), (51, 21542), (54, 21548), (100, 21728), (115, 21830), (120, 21854), (121, 21857), (123, 21866), (138, 21953), (160, 22058), (167, 22097), (168, 22121), (175, 22166), (180, 22214), (182, 22223), (184, 22235), (186, 22250), (204, 22373), (210, 22430),

Gene: Dre3_25 Start: 20758, Stop: 21861, Start Num: 23
Candidate Starts for Dre3_25:
(Start: 23 @20758 has 35 MA's), (28, 20794), (Start: 46 @20881 has 7 MA's), (77, 21019), (100, 21109), (108, 21160), (112, 21193), (115, 21211), (131, 21274), (141, 21322), (157, 21409), (173, 21514), (183, 21598), (184, 21604), (185, 21610), (190, 21637), (193, 21655), (203, 21736), (204, 21739), (205, 21742),

Gene: Easley_26 Start: 22020, Stop: 23057, Start Num: 33
Candidate Starts for Easley_26:
(10, 21849), (11, 21852), (Start: 33 @22020 has 18 MA's), (51, 22089), (54, 22095), (100, 22275), (105, 22296), (115, 22377), (121, 22404), (136, 22497), (160, 22605), (186, 22797), (204, 22917), (210, 22974),

Gene: Egi03_33 Start: 28412, Stop: 29584, Start Num: 9
Candidate Starts for Egi03_33:
(Start: 9 @28412 has 15 MA's), (25, 28553), (29, 28571), (60, 28706), (74, 28772), (100, 28859), (115, 28961), (149, 29066), (168, 29192), (169, 29198), (184, 29306), (188, 29324), (222, 29549),

Gene: ElJefes_24 Start: 20753, Stop: 21745, Start Num: 46
Candidate Starts for ElJefes_24:

(Start: 46 @20753 has 7 MA's), (83, 20900), (94, 20942), (95, 20948), (99, 20951), (102, 20969), (109, 21026), (115, 21059), (124, 21098), (140, 21188), (144, 21197), (156, 21266), (161, 21290), (168, 21350), (178, 21425), (184, 21464), (188, 21485), (189, 21488), (204, 21605), (208, 21638), (213, 21674), (222, 21710), (223, 21716), (224, 21728),

Gene: Eliott_25 Start: 20517, Stop: 21614, Start Num: 23
Candidate Starts for Eliott_25:
(Start: 23 @20517 has 35 MA's), (24, 20535), (Start: 46 @20640 has 7 MA's), (92, 20838), (115, 20970), (118, 20979), (121, 20997), (129, 21033), (145, 21093), (149, 21123), (173, 21273), (176, 21312), (183, 21357), (188, 21375), (199, 21456), (207, 21516), (211, 21552), (219, 21582), (223, 21603),

Gene: Emalyn_24 Start: 19777, Stop: 20889, Start Num: 23
Candidate Starts for Emalyn_24:
(16, 19708), (Start: 23 @19777 has 35 MA's), (Start: 46 @19900 has 7 MA's), (92, 20098), (115, 20230), (118, 20239), (142, 20356), (147, 20386), (150, 20401), (156, 20440), (166, 20497), (173, 20548), (183, 20632), (188, 20650), (193, 20683), (203, 20764), (204, 20767), (205, 20770), (223, 20878),

Gene: Fairfaxidum_28 Start: 23698, Stop: 24678, Start Num: 52
Candidate Starts for Fairfaxidum_28:
(37, 23638), (Start: 52 @23698 has 8 MA's), (105, 23905), (115, 23986), (116, 23989), (121, 24013), (133, 24082), (138, 24109), (159, 24217), (160, 24220), (163, 24229), (168, 24283), (171, 24295), (178, 24358), (192, 24439), (195, 24469), (210, 24589), (225, 24661), (226, 24670),

Gene: Feastonyeet_24 Start: 20320, Stop: 21312, Start Num: 46
Candidate Starts for Feastonyeet_24:
(Start: 46 @20320 has 7 MA's), (83, 20467), (94, 20509), (95, 20515), (99, 20518), (102, 20536), (109, 20593), (115, 20626), (140, 20755), (144, 20764), (156, 20833), (161, 20857), (168, 20917), (178, 20992), (188, 21052), (189, 21055), (204, 21172), (208, 21205), (213, 21241), (222, 21277), (223, 21283), (224, 21295),

Gene: Fribs8_26 Start: 21343, Stop: 22440, Start Num: 23
Candidate Starts for Fribs8_26:
(Start: 23 @21343 has 35 MA's), (24, 21361), (Start: 46 @21466 has 7 MA's), (77, 21604), (100, 21694), (104, 21709), (112, 21778), (115, 21796), (119, 21817), (120, 21820), (156, 21985), (166, 22042), (169, 22075), (178, 22144), (183, 22177), (185, 22189), (188, 22201), (193, 22234), (197, 22273), (204, 22318), (223, 22429),

Gene: Frizzle_25 Start: 21406, Stop: 22404, Start Num: 26
Candidate Starts for Frizzle_25:
(Start: 26 @21406 has 2 MA's), (34, 21466), (40, 21487), (48, 21523), (59, 21568), (66, 21595), (72, 21619), (76, 21640), (89, 21694), (101, 21736), (141, 21868), (156, 21952), (168, 22036), (183, 22144), (203, 22276), (204, 22279), (210, 22333), (211, 22339), (219, 22369),

Gene: Fugax_35 Start: 28934, Stop: 30106, Start Num: 9
Candidate Starts for Fugax_35:
(Start: 9 @28934 has 15 MA's), (25, 29075), (29, 29093), (60, 29228), (74, 29294), (100, 29381), (115, 29483), (149, 29588), (168, 29714), (169, 29720), (184, 29828), (188, 29846), (222, 30071),

Gene: GTE2_22 Start: 19853, Stop: 20965, Start Num: 23
Candidate Starts for GTE2_22:

(Start: 23 @19853 has 35 MA's), (24, 19871), (Start: 46 @19976 has 7 MA's), (73, 20099), (98, 20195), (112, 20288), (115, 20306), (119, 20327), (156, 20516), (160, 20537), (173, 20624), (183, 20708), (188, 20726), (193, 20759), (197, 20798), (203, 20840), (204, 20843), (205, 20846), (223, 20954),

Gene: Ghobes_26 Start: 21406, Stop: 22404, Start Num: 26
Candidate Starts for Ghobes_26:
(Start: 26 @21406 has 2 MA's), (34, 21466), (40, 21487), (48, 21523), (59, 21568), (66, 21595), (72, 21619), (76, 21640), (89, 21694), (101, 21736), (107, 21772), (141, 21868), (156, 21952), (168, 22036), (183, 22144), (203, 22276), (210, 22333), (211, 22339), (219, 22369),

Gene: Gibbous_25 Start: 20758, Stop: 21861, Start Num: 23
Candidate Starts for Gibbous_25:
(Start: 23 @20758 has 35 MA's), (28, 20794), (Start: 46 @20881 has 7 MA's), (77, 21019), (100, 21109), (108, 21160), (112, 21193), (115, 21211), (131, 21274), (141, 21322), (157, 21409), (173, 21514), (183, 21598), (184, 21604), (185, 21610), (190, 21637), (193, 21655), (203, 21736), (204, 21739), (205, 21742),

Gene: Goib_30 Start: 22610, Stop: 23578, Start Num: 39
Candidate Starts for Goib_30:
(15, 22433), (32, 22577), (36, 22601), (Start: 39 @22610 has 3 MA's), (Start: 43 @22625 has 3 MA's), (80, 22796), (82, 22805), (99, 22865), (112, 22958), (115, 22976), (123, 23012), (124, 23015), (134, 23030), (162, 23138), (164, 23150), (171, 23216), (175, 23249), (183, 23312), (191, 23354), (192, 23360), (194, 23387), (195, 23390), (197, 23408), (198, 23411), (203, 23450), (205, 23456), (208, 23489), (223, 23567),

Gene: GoldHunter_26 Start: 20518, Stop: 21615, Start Num: 23
Candidate Starts for GoldHunter_26:
(Start: 23 @20518 has 35 MA's), (24, 20536), (Start: 46 @20641 has 7 MA's), (92, 20839), (112, 20953), (115, 20971), (118, 20980), (121, 20998), (129, 21034), (145, 21094), (149, 21124), (173, 21274), (176, 21313), (183, 21358), (188, 21376), (192, 21400), (199, 21457), (207, 21517), (211, 21553), (219, 21583), (223, 21604),

Gene: Gudmit_25 Start: 20321, Stop: 21364, Start Num: 33
Candidate Starts for Gudmit_25:
(8, 20090), (17, 20186), (18, 20189), (Start: 33 @20321 has 18 MA's), (35, 20327), (47, 20372), (53, 20396), (55, 20405), (63, 20444), (100, 20579), (106, 20609), (115, 20681), (121, 20708), (136, 20801), (160, 20909), (168, 20972), (175, 21017), (178, 21047), (186, 21101), (210, 21278),

Gene: Gustav_25 Start: 19979, Stop: 21202, Start Num: 14
Candidate Starts for Gustav_25:
(Start: 14 @19979 has 4 MA's), (19, 20021), (22, 20051), (27, 20087), (38, 20150), (47, 20183), (55, 20216), (62, 20252), (72, 20294), (81, 20339), (82, 20342), (84, 20348), (96, 20399), (106, 20444), (108, 20465), (115, 20513), (157, 20741), (160, 20759), (170, 20831), (178, 20897), (181, 20918), (183, 20930), (188, 20957), (197, 21029), (201, 21053), (203, 21071), (210, 21131),

Gene: HippoPololi_27 Start: 21407, Stop: 22510, Start Num: 23
Candidate Starts for HippoPololi_27:
(Start: 23 @21407 has 35 MA's), (28, 21443), (Start: 46 @21530 has 7 MA's), (56, 21575), (58, 21587), (60, 21590), (73, 21653), (77, 21668), (81, 21689), (92, 21728), (100, 21758), (112, 21842), (115, 21860), (123, 21896), (131, 21923), (141, 21971), (157, 22058), (173, 22163), (183, 22247), (184, 22253), (185, 22259), (190, 22286), (191, 22289), (193, 22304), (203, 22385), (205, 22391),

Gene: Horseradish_26 Start: 20064, Stop: 21086, Start Num: 23

Candidate Starts for Horseradish_26:
(16, 19995), (Start: 23 @20064 has 35 MA's), (24, 20082), (Start: 46 @20187 has 7 MA's), (112, 20499), (115, 20517), (118, 20526), (122, 20550), (145, 20565), (166, 20694), (173, 20745), (175, 20766), (183, 20829), (188, 20847), (193, 20880), (201, 20943), (216, 21039),

Gene: Hortense_26 Start: 22619, Stop: 23656, Start Num: 33
Candidate Starts for Hortense_26:
(Start: 33 @22619 has 18 MA's), (51, 22688), (54, 22694), (100, 22874), (105, 22895), (115, 22976), (121, 23003), (136, 23096), (160, 23204), (168, 23267), (178, 23342), (210, 23573),

Gene: Howe_26 Start: 22619, Stop: 23656, Start Num: 33
Candidate Starts for Howe_26:
(Start: 33 @22619 has 18 MA's), (51, 22688), (54, 22694), (100, 22874), (105, 22895), (115, 22976), (121, 23003), (136, 23096), (160, 23204), (168, 23267), (178, 23342), (210, 23573),

Gene: Huffy_31 Start: 22562, Stop: 23509, Start Num: 43
Candidate Starts for Huffy_31:
(Start: 43 @22562 has 3 MA's), (80, 22733), (99, 22802), (112, 22895), (115, 22913), (155, 23045), (158, 23060), (164, 23087), (171, 23150), (175, 23183), (179, 23216), (182, 23240), (198, 23345), (205, 23390), (208, 23420), (212, 23447), (214, 23456), (223, 23498),

Gene: KappaFarmDelta_30 Start: 23868, Stop: 24845, Start Num: 52
Candidate Starts for KappaFarmDelta_30:
(37, 23808), (Start: 52 @23868 has 8 MA's), (71, 23949), (Start: 78 @23982 has 1 MA's), (86, 24009), (105, 24075), (111, 24132), (115, 24156), (133, 24252), (159, 24387), (160, 24390), (168, 24453), (175, 24498), (184, 24567), (189, 24588), (210, 24759), (222, 24810),

Gene: Kiko_28 Start: 22114, Stop: 23412, Start Num: 7
Candidate Starts for Kiko_28:
(2, 21883), (3, 21898), (4, 21934), (6, 21982), (Start: 7 @22114 has 2 MA's), (12, 22198), (13, 22207), (24, 22309), (56, 22462), (88, 22594), (90, 22600), (115, 22729), (133, 22825), (135, 22849), (138, 22852), (159, 22957), (160, 22960), (168, 23023), (189, 23158), (204, 23272), (210, 23329),

Gene: MScarn_27 Start: 20153, Stop: 21250, Start Num: 23
Candidate Starts for MScarn_27:
(16, 20084), (Start: 23 @20153 has 35 MA's), (24, 20171), (Start: 46 @20276 has 7 MA's), (94, 20483), (112, 20588), (115, 20606), (118, 20615), (130, 20669), (145, 20729), (166, 20858), (173, 20909), (183, 20993), (188, 21011), (193, 21044), (200, 21095), (201, 21107), (216, 21203), (223, 21239),

Gene: MaVan_27 Start: 21488, Stop: 22621, Start Num: 23
Candidate Starts for MaVan_27:
(Start: 23 @21488 has 35 MA's), (Start: 46 @21611 has 7 MA's), (77, 21749), (97, 21827), (100, 21839), (104, 21854), (112, 21923), (115, 21941), (120, 21965), (125, 22001), (141, 22082), (156, 22166), (183, 22358), (185, 22370), (188, 22382), (193, 22415), (197, 22454), (204, 22499), (223, 22610),

Gene: McDazzle_24 Start: 20747, Stop: 21739, Start Num: 46
Candidate Starts for McDazzle_24:
(Start: 46 @20747 has 7 MA's), (83, 20894), (94, 20936), (95, 20942), (99, 20945), (102, 20963), (109, 21020), (115, 21053), (124, 21092), (140, 21182), (144, 21191), (156, 21260), (161, 21284), (168, 21344), (178, 21419), (184, 21458), (188, 21479), (189, 21482), (204, 21599), (208, 21632), (213, 21668), (222, 21704), (223, 21710), (224, 21722),

Gene: Mcklovin_26 Start: 24788, Stop: 25825, Start Num: 33
Candidate Starts for Mcklovin_26:
(10, 24617), (11, 24620), (Start: 33 @24788 has 18 MA's), (51, 24857), (54, 24863), (100, 25043),
(105, 25064), (115, 25145), (121, 25172), (136, 25265), (160, 25373), (168, 25436), (178, 25511),
(210, 25742),

Gene: MichaelScott_26 Start: 22391, Stop: 23428, Start Num: 33
Candidate Starts for MichaelScott_26:
(10, 22220), (11, 22223), (Start: 33 @22391 has 18 MA's), (51, 22460), (54, 22466), (100, 22646),
(105, 22667), (115, 22748), (121, 22775), (136, 22868), (160, 22976), (168, 23039), (178, 23114),
(210, 23345),

Gene: Morrissey_26 Start: 20856, Stop: 22073, Start Num: 14
Candidate Starts for Morrissey_26:
(Start: 14 @20856 has 4 MA's), (Start: 23 @20922 has 35 MA's), (27, 20955), (38, 21018), (62, 21120),
(81, 21207), (82, 21210), (84, 21216), (106, 21312), (108, 21333), (115, 21381), (156, 21609), (157,
21612), (170, 21702), (178, 21768), (181, 21789), (183, 21801), (188, 21828), (194, 21879), (197,
21900), (201, 21924), (203, 21942), (215, 22020),

Gene: MunkgeeRoachy_25 Start: 20565, Stop: 21695, Start Num: 23
Candidate Starts for MunkgeeRoachy_25:
(Start: 23 @20565 has 35 MA's), (24, 20583), (Start: 46 @20688 has 7 MA's), (92, 20886), (112,
21000), (115, 21018), (118, 21027), (126, 21081), (141, 21162), (145, 21174), (149, 21204), (173,
21354), (183, 21438), (188, 21456), (193, 21489), (199, 21537), (201, 21552), (216, 21648), (223,
21684),

Gene: Murp_29 Start: 23645, Stop: 24622, Start Num: 52
Candidate Starts for Murp_29:
(37, 23585), (Start: 52 @23645 has 8 MA's), (71, 23726), (Start: 78 @23759 has 1 MA's), (86, 23786),
(99, 23825), (105, 23852), (111, 23909), (115, 23933), (156, 24146), (159, 24164), (160, 24167), (163,
24176), (168, 24230), (175, 24275), (184, 24344), (208, 24515), (210, 24536), (222, 24587),

Gene: Nibbles_27 Start: 21488, Stop: 22621, Start Num: 23
Candidate Starts for Nibbles_27:
(Start: 23 @21488 has 35 MA's), (24, 21506), (Start: 46 @21611 has 7 MA's), (73, 21734), (77, 21749),
(97, 21827), (100, 21839), (104, 21854), (112, 21923), (115, 21941), (120, 21965), (125, 22001), (141,
22082), (156, 22166), (183, 22358), (185, 22370), (188, 22382), (193, 22415), (197, 22454), (204,
22499), (223, 22610),

Gene: Nina_26 Start: 21560, Stop: 22657, Start Num: 23
Candidate Starts for Nina_26:
(Start: 23 @21560 has 35 MA's), (24, 21578), (Start: 46 @21683 has 7 MA's), (92, 21881), (115,
22013), (118, 22022), (121, 22040), (129, 22076), (145, 22136), (149, 22166), (173, 22316), (176,
22355), (183, 22400), (188, 22418), (192, 22442), (199, 22499), (207, 22559), (211, 22595), (219,
22625), (223, 22646),

Gene: Oregano_26 Start: 22056, Stop: 23096, Start Num: 33
Candidate Starts for Oregano_26:
(Start: 33 @22056 has 18 MA's), (51, 22125), (54, 22131), (100, 22311), (105, 22332), (106, 22341),
(115, 22413), (121, 22440), (136, 22533), (160, 22641), (168, 22704), (184, 22818), (204, 22956),
(210, 23013),

Gene: PCoral7_29 Start: 23615, Stop: 24595, Start Num: 52

Candidate Starts for PCoral7_29:
(37, 23555), (Start: 52 @23615 has 8 MA's), (Start: 78 @23726 has 1 MA's), (105, 23822), (109, 23870), (115, 23903), (121, 23930), (133, 23999), (136, 24023), (138, 24026), (156, 24116), (159, 24134), (160, 24137), (168, 24200), (178, 24275), (202, 24431), (210, 24506), (225, 24578), (226, 24587),

Gene: Petra_30 Start: 23485, Stop: 24351, Start Num: 78
Candidate Starts for Petra_30:
(37, 23311), (Start: 52 @23371 has 8 MA's), (71, 23452), (Start: 78 @23485 has 1 MA's), (86, 23512), (99, 23551), (105, 23578), (115, 23659), (121, 23686), (123, 23695), (133, 23755), (136, 23779), (138, 23782), (157, 23875), (159, 23890), (160, 23893), (168, 23956), (171, 23968), (175, 24001), (178, 24031), (202, 24187), (208, 24241), (210, 24262),

Gene: PhriskyACE_25 Start: 21473, Stop: 22513, Start Num: 33
Candidate Starts for PhriskyACE_25:
(Start: 33 @21473 has 18 MA's), (51, 21542), (54, 21548), (100, 21728), (115, 21830), (120, 21854), (121, 21857), (123, 21866), (138, 21953), (160, 22058), (167, 22097), (168, 22121), (175, 22166), (180, 22214), (182, 22223), (184, 22235), (186, 22250), (204, 22373), (210, 22430),

Gene: PinkCoffee_35 Start: 28943, Stop: 30115, Start Num: 9
Candidate Starts for PinkCoffee_35:
(Start: 9 @28943 has 15 MA's), (25, 29084), (29, 29102), (60, 29237), (74, 29303), (100, 29390), (115, 29492), (149, 29597), (168, 29723), (169, 29729), (184, 29837), (188, 29855), (222, 30080),

Gene: Portcullis_33 Start: 28253, Stop: 29425, Start Num: 9
Candidate Starts for Portcullis_33:
(Start: 9 @28253 has 15 MA's), (25, 28394), (29, 28412), (60, 28547), (74, 28613), (79, 28631), (93, 28682), (100, 28700), (115, 28802), (149, 28907), (168, 29033), (169, 29039), (184, 29147), (188, 29165), (222, 29390),

Gene: PotPie_25 Start: 21139, Stop: 22131, Start Num: 46
Candidate Starts for PotPie_25:
(Start: 46 @21139 has 7 MA's), (83, 21286), (94, 21328), (95, 21334), (99, 21337), (102, 21355), (109, 21412), (115, 21445), (140, 21574), (144, 21583), (156, 21652), (161, 21676), (168, 21736), (178, 21811), (188, 21871), (189, 21874), (204, 21991), (208, 22024), (213, 22060), (222, 22096), (223, 22102), (224, 22114),

Gene: PrincePatrick_28 Start: 23694, Stop: 24674, Start Num: 52
Candidate Starts for PrincePatrick_28:
(37, 23634), (Start: 52 @23694 has 8 MA's), (Start: 78 @23805 has 1 MA's), (105, 23901), (109, 23949), (115, 23982), (121, 24009), (123, 24018), (133, 24078), (136, 24102), (138, 24105), (156, 24195), (159, 24213), (160, 24216), (168, 24279), (178, 24354), (202, 24510), (210, 24585), (222, 24636),

Gene: PsychoKiller_25 Start: 20517, Stop: 21614, Start Num: 23
Candidate Starts for PsychoKiller_25:
(Start: 23 @20517 has 35 MA's), (24, 20535), (Start: 46 @20640 has 7 MA's), (92, 20838), (115, 20970), (118, 20979), (121, 20997), (129, 21033), (145, 21093), (149, 21123), (173, 21273), (176, 21312), (183, 21357), (188, 21375), (199, 21456), (207, 21516), (211, 21552), (219, 21582), (223, 21603),

Gene: Puppers_25 Start: 19683, Stop: 20918, Start Num: 14
Candidate Starts for Puppers_25:

(Start: 14 @19683 has 4 MA's), (27, 19794), (30, 19812), (38, 19857), (50, 19902), (62, 19959), (70, 19989), (72, 20001), (87, 20064), (91, 20088), (103, 20133), (110, 20187), (113, 20202), (114, 20205), (117, 20220), (128, 20280), (145, 20376), (151, 20424), (152, 20427), (185, 20658), (196, 20733), (207, 20817), (221, 20892), (222, 20898),

Gene: Quasar_25 Start: 21126, Stop: 22223, Start Num: 23
Candidate Starts for Quasar_25:
(Start: 23 @21126 has 35 MA's), (24, 21144), (Start: 46 @21249 has 7 MA's), (92, 21447), (112, 21561), (115, 21579), (118, 21588), (121, 21606), (129, 21642), (145, 21702), (149, 21732), (173, 21882), (176, 21921), (183, 21966), (188, 21984), (192, 22008), (199, 22065), (207, 22125), (211, 22161), (219, 22191), (223, 22212),

Gene: RADical_26 Start: 20518, Stop: 21615, Start Num: 23
Candidate Starts for RADical_26:
(Start: 23 @20518 has 35 MA's), (24, 20536), (Start: 46 @20641 has 7 MA's), (92, 20839), (112, 20953), (115, 20971), (118, 20980), (121, 20998), (129, 21034), (145, 21094), (149, 21124), (173, 21274), (176, 21313), (183, 21358), (188, 21376), (192, 21400), (199, 21457), (207, 21517), (211, 21553), (219, 21583), (223, 21604),

Gene: RSchmailzl_26 Start: 20661, Stop: 21758, Start Num: 23
Candidate Starts for RSchmailzl_26:
(Start: 23 @20661 has 35 MA's), (24, 20679), (Start: 46 @20784 has 7 MA's), (92, 20982), (115, 21114), (118, 21123), (119, 21135), (121, 21141), (129, 21177), (145, 21237), (173, 21417), (176, 21456), (183, 21501), (188, 21519), (192, 21543), (199, 21600), (207, 21660), (211, 21696), (219, 21726), (223, 21747),

Gene: RedBaron_26 Start: 20561, Stop: 21658, Start Num: 23
Candidate Starts for RedBaron_26:
(Start: 23 @20561 has 35 MA's), (24, 20579), (Start: 46 @20684 has 7 MA's), (92, 20882), (115, 21014), (118, 21023), (121, 21041), (129, 21077), (145, 21137), (173, 21317), (176, 21356), (183, 21401), (188, 21419), (192, 21443), (199, 21500), (207, 21560), (211, 21596), (219, 21626), (223, 21647),

Gene: RogerDodger_36 Start: 29082, Stop: 30254, Start Num: 9
Candidate Starts for RogerDodger_36:
(Start: 9 @29082 has 15 MA's), (25, 29223), (29, 29241), (60, 29376), (74, 29442), (100, 29529), (115, 29631), (149, 29736), (168, 29862), (169, 29868), (184, 29976), (188, 29994), (222, 30219),

Gene: Samman98_26 Start: 22025, Stop: 23065, Start Num: 33
Candidate Starts for Samman98_26:
(Start: 33 @22025 has 18 MA's), (51, 22094), (54, 22100), (100, 22280), (115, 22382), (120, 22406), (121, 22409), (123, 22418), (138, 22505), (160, 22610), (167, 22649), (168, 22673), (175, 22718), (180, 22766), (182, 22775), (184, 22787), (186, 22802), (204, 22925), (210, 22982),

Gene: Sapo_25 Start: 21383, Stop: 22177, Start Num: 67
Candidate Starts for Sapo_25:
(Start: 67 @21383 has 1 MA's), (76, 21425), (85, 21461), (108, 21551), (120, 21626), (121, 21629), (156, 21722), (177, 21878), (183, 21917), (205, 22055), (208, 22085), (209, 22094), (219, 22142),

Gene: Sekhmet_26 Start: 22385, Stop: 23425, Start Num: 33
Candidate Starts for Sekhmet_26:
(Start: 33 @22385 has 18 MA's), (51, 22454), (54, 22460), (100, 22640), (115, 22742), (120, 22766), (121, 22769), (123, 22778), (138, 22865), (160, 22970), (167, 23009), (168, 23033), (175, 23078),

(180, 23126), (182, 23135), (184, 23147), (186, 23162), (204, 23285), (210, 23342),

Gene: SheckWes_25 Start: 20283, Stop: 21275, Start Num: 46
Candidate Starts for SheckWes_25:
(Start: 46 @20283 has 7 MA's), (83, 20430), (94, 20472), (99, 20481), (102, 20499), (109, 20556),
(115, 20589), (124, 20628), (140, 20718), (144, 20727), (156, 20796), (161, 20820), (168, 20880),
(178, 20955), (188, 21015), (189, 21018), (204, 21135), (208, 21168), (213, 21204), (222, 21240),
(223, 21246), (224, 21258),

Gene: Shinji_33 Start: 28194, Stop: 29366, Start Num: 9
Candidate Starts for Shinji_33:
(Start: 9 @28194 has 15 MA's), (25, 28335), (29, 28353), (60, 28488), (74, 28554), (79, 28572), (93,
28623), (100, 28641), (115, 28743), (149, 28848), (168, 28974), (169, 28980), (184, 29088), (188,
29106), (222, 29331),

Gene: Shlim410_26 Start: 22619, Stop: 23656, Start Num: 33
Candidate Starts for Shlim410_26:
(Start: 33 @22619 has 18 MA's), (51, 22688), (54, 22694), (100, 22874), (105, 22895), (115, 22976),
(121, 23003), (136, 23096), (160, 23204), (168, 23267), (178, 23342), (210, 23573),

Gene: SketchMex_24 Start: 20168, Stop: 21265, Start Num: 23
Candidate Starts for SketchMex_24:
(16, 20099), (Start: 23 @20168 has 35 MA's), (24, 20186), (Start: 46 @20291 has 7 MA's), (94, 20498),
(112, 20603), (115, 20621), (118, 20630), (130, 20684), (145, 20744), (166, 20873), (173, 20924),
(183, 21008), (188, 21026), (193, 21059), (200, 21110), (201, 21122), (216, 21218), (223, 21254),

Gene: Socotra_26 Start: 20517, Stop: 21614, Start Num: 23
Candidate Starts for Socotra_26:
(Start: 23 @20517 has 35 MA's), (24, 20535), (Start: 46 @20640 has 7 MA's), (92, 20838), (112,
20952), (115, 20970), (118, 20979), (121, 20997), (129, 21033), (145, 21093), (149, 21123), (173,
21273), (176, 21312), (183, 21357), (188, 21375), (192, 21399), (199, 21456), (207, 21516), (211,
21552), (219, 21582), (223, 21603),

Gene: Sopespian_25 Start: 20518, Stop: 21615, Start Num: 23
Candidate Starts for Sopespian_25:
(Start: 23 @20518 has 35 MA's), (24, 20536), (Start: 46 @20641 has 7 MA's), (92, 20839), (115,
20971), (118, 20980), (121, 20998), (129, 21034), (145, 21094), (149, 21124), (173, 21274), (176,
21313), (183, 21358), (188, 21376), (192, 21400), (199, 21457), (207, 21517), (211, 21553), (219,
21583), (223, 21604),

Gene: Splinter_29 Start: 22610, Stop: 23578, Start Num: 39
Candidate Starts for Splinter_29:
(15, 22433), (32, 22577), (36, 22601), (Start: 39 @22610 has 3 MA's), (Start: 43 @22625 has 3 MA's),
(80, 22796), (82, 22805), (99, 22865), (112, 22958), (115, 22976), (123, 23012), (124, 23015), (134,
23030), (162, 23138), (164, 23150), (171, 23216), (175, 23249), (183, 23312), (191, 23354), (192,
23360), (194, 23387), (195, 23390), (197, 23408), (198, 23411), (203, 23450), (205, 23456), (208,
23489), (223, 23567),

Gene: Starburst_26 Start: 20518, Stop: 21615, Start Num: 23
Candidate Starts for Starburst_26:
(Start: 23 @20518 has 35 MA's), (24, 20536), (Start: 46 @20641 has 7 MA's), (92, 20839), (112,
20953), (115, 20971), (118, 20980), (121, 20998), (129, 21034), (145, 21094), (149, 21124), (173,
21274), (176, 21313), (183, 21358), (188, 21376), (192, 21400), (199, 21457), (207, 21517), (211,

21553), (219, 21583), (223, 21604),

Gene: SteamedHams_27 Start: 20181, Stop: 21269, Start Num: 23
Candidate Starts for SteamedHams_27:
(22, 20178), (Start: 23 @20181 has 35 MA's), (24, 20199), (Start: 46 @20304 has 7 MA's), (73, 20427),
(112, 20616), (115, 20634), (118, 20643), (119, 20655), (147, 20766), (156, 20820), (160, 20841),
(173, 20928), (183, 21012), (188, 21030), (193, 21063), (201, 21126), (203, 21144), (204, 21147),
(205, 21150), (211, 21207), (223, 21258),

Gene: SummitAcademy_25 Start: 20359, Stop: 21351, Start Num: 46
Candidate Starts for SummitAcademy_25:
(Start: 46 @20359 has 7 MA's), (83, 20506), (99, 20557), (102, 20575), (109, 20632), (115, 20665),
(140, 20794), (144, 20803), (156, 20872), (161, 20896), (168, 20956), (178, 21031), (188, 21091),
(189, 21094), (204, 21211), (208, 21244), (213, 21280), (222, 21316), (223, 21322), (224, 21334),

Gene: Survivors_27 Start: 21337, Stop: 22437, Start Num: 23
Candidate Starts for Survivors_27:
(Start: 23 @21337 has 35 MA's), (24, 21355), (Start: 46 @21460 has 7 MA's), (77, 21598), (97, 21676),
(100, 21688), (104, 21703), (112, 21772), (115, 21790), (120, 21814), (156, 21982), (183, 22174),
(186, 22195), (188, 22198), (193, 22231), (201, 22294), (203, 22312), (205, 22318), (223, 22426),

Gene: TZGordon_31 Start: 22485, Stop: 23432, Start Num: 43
Candidate Starts for TZGordon_31:
(Start: 43 @22485 has 3 MA's), (80, 22656), (99, 22725), (112, 22818), (115, 22836), (155, 22968),
(158, 22983), (164, 23010), (171, 23073), (175, 23106), (179, 23139), (182, 23163), (198, 23268),
(205, 23313), (208, 23343), (212, 23370), (214, 23379), (223, 23421),

Gene: TinaLin_31 Start: 22732, Stop: 23730, Start Num: 42
Candidate Starts for TinaLin_31:
(41, 22729), (Start: 42 @22732 has 3 MA's), (75, 22879), (80, 22900), (94, 22957), (99, 22969), (115,
23080), (155, 23263), (168, 23356), (174, 23392), (175, 23401), (191, 23506), (192, 23512), (194,
23539), (195, 23542), (211, 23668), (217, 23686), (218, 23695), (223, 23719),

Gene: Toast_29 Start: 23615, Stop: 24595, Start Num: 52
Candidate Starts for Toast_29:
(37, 23555), (Start: 52 @23615 has 8 MA's), (Start: 78 @23726 has 1 MA's), (105, 23822), (109,
23870), (115, 23903), (121, 23930), (133, 23999), (136, 24023), (138, 24026), (156, 24116), (159,
24134), (160, 24137), (168, 24200), (178, 24275), (202, 24431), (210, 24506), (225, 24578), (226,
24587),

Gene: Tolls_27 Start: 20184, Stop: 21263, Start Num: 23
Candidate Starts for Tolls_27:
(22, 20181), (Start: 23 @20184 has 35 MA's), (24, 20202), (Start: 46 @20307 has 7 MA's), (73, 20430),
(100, 20535), (112, 20619), (115, 20637), (120, 20661), (143, 20742), (147, 20760), (156, 20814),
(173, 20922), (183, 21006), (188, 21024), (193, 21057), (201, 21120), (203, 21138), (204, 21141),
(205, 21144), (211, 21201),

Gene: Troje_25 Start: 20150, Stop: 21247, Start Num: 23
Candidate Starts for Troje_25:
(16, 20081), (Start: 23 @20150 has 35 MA's), (24, 20168), (Start: 46 @20273 has 7 MA's), (94, 20480),
(112, 20585), (115, 20603), (118, 20612), (130, 20666), (145, 20726), (166, 20855), (173, 20906),
(183, 20990), (188, 21008), (193, 21041), (200, 21092), (201, 21104), (216, 21200), (223, 21236),

Gene: Twinkle_26 Start: 23678, Stop: 24715, Start Num: 33
Candidate Starts for Twinkle_26:
(Start: 33 @23678 has 18 MA's), (51, 23747), (54, 23753), (100, 23933), (105, 23954), (115, 24035), (121, 24062), (136, 24155), (160, 24263), (168, 24326), (178, 24401), (210, 24632),

Gene: Twister6_35 Start: 28645, Stop: 29817, Start Num: 9
Candidate Starts for Twister6_35:
(Start: 9 @28645 has 15 MA's), (25, 28786), (29, 28804), (60, 28939), (74, 29005), (100, 29092), (115, 29194), (149, 29299), (168, 29425), (169, 29431), (184, 29539), (188, 29557), (222, 29782),

Gene: Typhonomachy_25 Start: 20517, Stop: 21647, Start Num: 23
Candidate Starts for Typhonomachy_25:
(Start: 23 @20517 has 35 MA's), (24, 20535), (Start: 46 @20640 has 7 MA's), (92, 20838), (112, 20952), (115, 20970), (118, 20979), (126, 21033), (141, 21114), (145, 21126), (150, 21159), (173, 21306), (176, 21345), (183, 21390), (188, 21408), (192, 21432), (199, 21489), (207, 21549), (211, 21585), (219, 21615), (223, 21636),

Gene: VanDeWege_36 Start: 28981, Stop: 30153, Start Num: 9
Candidate Starts for VanDeWege_36:
(Start: 9 @28981 has 15 MA's), (29, 29140), (60, 29275), (74, 29341), (100, 29428), (115, 29530), (149, 29635), (168, 29761), (169, 29767), (184, 29875), (188, 29893), (222, 30118),

Gene: Vendetta_29 Start: 22610, Stop: 23578, Start Num: 39
Candidate Starts for Vendetta_29:
(15, 22433), (32, 22577), (36, 22601), (Start: 39 @22610 has 3 MA's), (Start: 43 @22625 has 3 MA's), (82, 22805), (99, 22865), (112, 22958), (115, 22976), (123, 23012), (124, 23015), (134, 23030), (162, 23138), (164, 23150), (171, 23216), (175, 23249), (183, 23312), (191, 23354), (192, 23360), (194, 23387), (195, 23390), (197, 23408), (198, 23411), (203, 23450), (205, 23456), (208, 23489), (223, 23567),

Gene: Vine_26 Start: 21286, Stop: 22272, Start Num: 46
Candidate Starts for Vine_26:
(Start: 46 @21286 has 7 MA's), (94, 21475), (115, 21592), (140, 21721), (144, 21730), (156, 21799), (161, 21823), (168, 21883), (178, 21958), (188, 22018), (189, 22021), (208, 22168), (213, 22204), (222, 22240), (224, 22258),

Gene: Widow_25 Start: 19674, Stop: 20909, Start Num: 14
Candidate Starts for Widow_25:
(Start: 14 @19674 has 4 MA's), (27, 19785), (29, 19794), (30, 19803), (38, 19848), (50, 19893), (62, 19950), (70, 19980), (72, 19992), (87, 20055), (91, 20079), (103, 20124), (110, 20178), (113, 20193), (114, 20196), (117, 20211), (128, 20271), (145, 20367), (151, 20415), (152, 20418), (185, 20649), (196, 20724), (207, 20808), (221, 20883), (222, 20889),

Gene: William_29 Start: 23441, Stop: 24427, Start Num: 52
Candidate Starts for William_29:
(37, 23381), (Start: 52 @23441 has 8 MA's), (68, 23504), (Start: 78 @23552 has 1 MA's), (105, 23648), (115, 23729), (116, 23732), (121, 23756), (133, 23825), (138, 23852), (159, 23960), (160, 23963), (168, 24026), (171, 24038), (178, 24101), (192, 24182), (195, 24212), (210, 24332),

Gene: WinkNick_26 Start: 22010, Stop: 23047, Start Num: 33
Candidate Starts for WinkNick_26:
(10, 21839), (11, 21842), (Start: 33 @22010 has 18 MA's), (51, 22079), (54, 22085), (100, 22265), (105, 22286), (115, 22367), (121, 22394), (136, 22487), (160, 22595), (168, 22658), (178, 22733),

(210, 22964),

Gene: Wocket_30 Start: 24063, Stop: 25040, Start Num: 52
Candidate Starts for Wocket_30:
(37, 24003), (Start: 52 @24063 has 8 MA's), (71, 24144), (Start: 78 @24177 has 1 MA's), (86, 24204), (105, 24270), (111, 24327), (115, 24351), (159, 24582), (160, 24585), (168, 24648), (175, 24693), (184, 24762), (210, 24954), (222, 25005),

Gene: Wolfwood_29 Start: 21481, Stop: 22581, Start Num: 23
Candidate Starts for Wolfwood_29:
(Start: 23 @21481 has 35 MA's), (24, 21499), (Start: 46 @21604 has 7 MA's), (77, 21742), (97, 21820), (100, 21832), (112, 21916), (115, 21934), (120, 21958), (156, 22126), (183, 22318), (186, 22339), (188, 22342), (193, 22375), (201, 22438), (203, 22456), (205, 22462), (223, 22570),

Gene: Yarn_24 Start: 20174, Stop: 21286, Start Num: 23
Candidate Starts for Yarn_24:
(Start: 23 @20174 has 35 MA's), (24, 20192), (Start: 46 @20297 has 7 MA's), (73, 20420), (112, 20609), (115, 20627), (118, 20636), (119, 20648), (142, 20753), (156, 20837), (173, 20945), (183, 21029), (188, 21047), (193, 21080), (201, 21143), (203, 21161), (204, 21164), (205, 21167), (211, 21224),

Gene: Yucky_25 Start: 21145, Stop: 22131, Start Num: 46
Candidate Starts for Yucky_25:
(Start: 46 @21145 has 7 MA's), (94, 21334), (115, 21451), (120, 21475), (138, 21574), (141, 21580), (156, 21658), (157, 21661), (161, 21682), (168, 21742), (178, 21817), (183, 21850), (192, 21901), (204, 21994), (222, 22099), (224, 22117),

Gene: Yummy_26 Start: 20064, Stop: 21200, Start Num: 23
Candidate Starts for Yummy_26:
(16, 19995), (Start: 23 @20064 has 35 MA's), (24, 20082), (Start: 46 @20187 has 7 MA's), (112, 20499), (115, 20517), (118, 20526), (122, 20550), (127, 20577), (145, 20679), (166, 20808), (173, 20859), (175, 20880), (183, 20943), (188, 20961), (193, 20994), (201, 21057), (216, 21153),

Gene: YungMoney_35 Start: 29700, Stop: 30950, Start Num: 9
Candidate Starts for YungMoney_35:
(Start: 9 @29700 has 15 MA's), (21, 29814), (29, 29859), (31, 29880), (66, 30024), (74, 30060), (100, 30147), (115, 30249), (121, 30276), (133, 30357), (156, 30480), (157, 30483), (160, 30501), (169, 30570), (184, 30678),

Gene: Zareef_27 Start: 21489, Stop: 22589, Start Num: 23
Candidate Starts for Zareef_27:
(Start: 23 @21489 has 35 MA's), (24, 21507), (Start: 46 @21612 has 7 MA's), (77, 21750), (97, 21828), (100, 21840), (104, 21855), (112, 21924), (115, 21942), (120, 21966), (156, 22134), (183, 22326), (186, 22347), (188, 22350), (193, 22383), (201, 22446), (203, 22464), (205, 22470), (223, 22578),