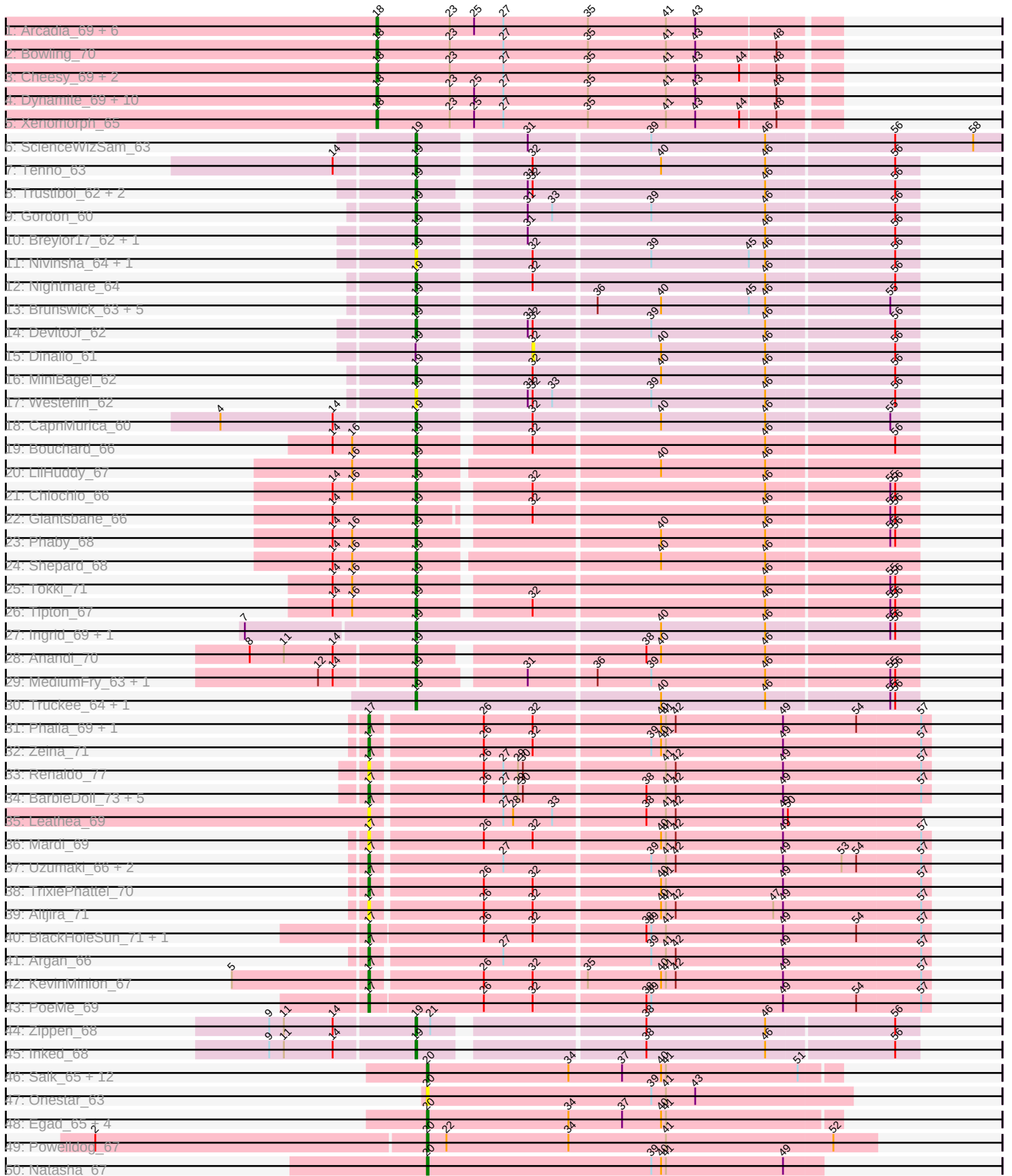
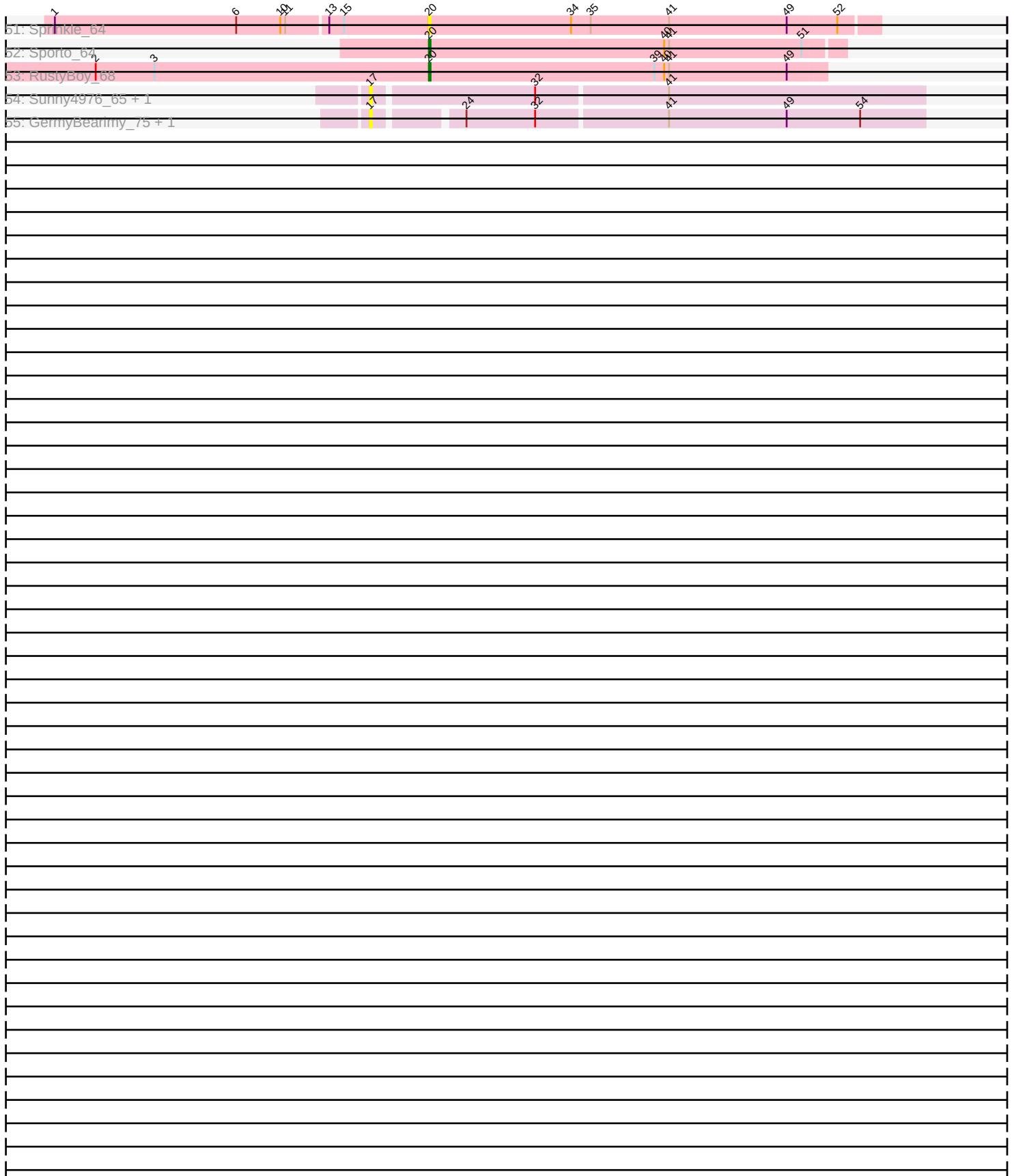


Pham 326864



Pham 326864



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 326864 Report

This analysis was run 09/05/26 on database version 662.

Pham number 326864 has 112 members, 21 are drafts.

Phages represented in each track:

- Track 1 : Arcadia_69, Kardesai_69, Nason_69, Elsa_69, Mooshroom_70, GoCrazy_66, KeaneyLin_65
- Track 2 : Bowling_70
- Track 3 : Cheesy_69, Tribby_72, Correa_67
- Track 4 : Dynamite_69, YoshiYama_70, JEGGS_68, Mudcat_65, NapoleonB_70, BenitoAntonio_67, Heisenberger_68, Circum_70, Stardom_68, Benllo_66, Hankly_68
- Track 5 : Xenomorph_65
- Track 6 : ScienceWizSam_63
- Track 7 : Tenno_63
- Track 8 : Trustiboi_62, Darby_61, Synepsis_61
- Track 9 : Gordon_60
- Track 10 : Breylor17_62, CastorTray_66
- Track 11 : Nivinsha_64, AreFloNak_65
- Track 12 : Nightmare_64
- Track 13 : Brunswick_63, LucySwiss_62, Niktson_62, ElephantMan_62, Acai_62, Teacup_63
- Track 14 : DevitoJr_62
- Track 15 : Dinallo_61
- Track 16 : MiniBagel_62
- Track 17 : Westerlin_62
- Track 18 : CapnMurica_60
- Track 19 : Bouchard_66
- Track 20 : LilHuddy_67
- Track 21 : Chlochlo_66
- Track 22 : Giantsbane_66
- Track 23 : Phaby_68
- Track 24 : Shepard_68
- Track 25 : Tokki_71
- Track 26 : Tipton_67
- Track 27 : Ingrid_69, Loretta_66
- Track 28 : Anandi_70
- Track 29 : MediumFry_63, Caterpillar_62
- Track 30 : Truckee_64, Makai_66
- Track 31 : Phaila_69, Navi1117_71
- Track 32 : Zeina_71
- Track 33 : Renaldo_77

- Track 34 : BarbieDoll_73, Muglass_70, Kinny_72, Barbonzobean_72, Biscute_69, Lewando_72
- Track 35 : Leathe_69
- Track 36 : Mardi_69
- Track 37 : Uzumaki_66, GantcherGoblin_67, Tenney120_70
- Track 38 : TrixiePhattel_70
- Track 39 : Altjira_71
- Track 40 : BlackHoleSun_71, Stardrop_69
- Track 41 : Argan_66
- Track 42 : KevinMinion_67
- Track 43 : PoeMe_69
- Track 44 : Zippen_68
- Track 45 : Inked_68
- Track 46 : Salk_65, BronxBay_65, Shiba_64, MrAaronian_65, DoctorPepper_64, Sloopyjoe_65, Linda_65, Michelle_65, Jeremy4pt0_64, Djungelskog_64, Spain_65, Stayer_65, StarLord_65
- Track 47 : Onestar_63
- Track 48 : Egad_65, Raunak_66, Boog_64, HerbBucket_63, ProfFrink_65
- Track 49 : PowellDog_67
- Track 50 : Natasha_67
- Track 51 : Sprinkle_64
- Track 52 : Sporto_64
- Track 53 : RustyBoy_68
- Track 54 : Sunny4976_65, Jazzy4900_66
- Track 55 : GermyBearimy_75, Arzan_67

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

The start number called the most often in the published annotations is 19, it was called in 35 of the 91 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acai_62, Anandi_70, AreFloNak_65, Bouchard_66, Breylor17_62, Brunswick_63, CapnMurica_60, CastorTray_66, Caterpillar_62, Chlochlo_66, Darby_61, DevitoJr_62, ElephantMan_62, Giantsbane_66, Gordon_60, Ingrid_69, Inked_68, LilHuddy_67, Loretta_66, LucySwiss_62, Makai_66, MediumFry_63, MiniBagel_62, Nightmare_64, Niktson_62, Nivinsha_64, Phaby_68, ScienceWizSam_63, Shepard_68, Synopsis_61, Teacup_63, Tenno_63, Tipton_67, Tokki_71, Truckee_64, Trustiboi_62, Westerlin_62, Zippen_68,

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

- Dinallo_61,

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

- Altjira_71, Arcadia_69, Argan_66, Arzan_67, BarbieDoll_73, Barbonzobean_72, BenitoAntonio_67, Benllo_66, Biscute_69, BlackHoleSun_71, Boog_64, Bowling_70, BronxBay_65, Cheesy_69, Circum_70, Correa_67, Djungelskog_64, DoctorPepper_64, Dynamite_69, Egad_65, Elsa_69, GantcherGoblin_67, GermyBearimy_75, GoCrazy_66, Hankly_68, Heisenberger_68, HerbBucket_63, JEGGS_68, Jazzy4900_66, Jeremy4pt0_64, Kardesai_69, KeaneyLin_65,

KevinMinion_67, Kinny_72, Leatheia_69, Lewando_72, Linda_65, Mardi_69, Michelle_65, Mooshroom_70, MrAaronian_65, Mudcat_65, Muglass_70, NapoleonB_70, Nason_69, Natasha_67, Navi1117_71, Onestar_63, Phaila_69, PoeMe_69, PowellDog_67, ProfFrink_65, Raunak_66, Renaldo_77, RustyBoy_68, Salk_65, Shiba_64, Sloopyjoe_65, Spain_65, Sporto_64, Sprinkle_64, StarLord_65, Stardom_68, Stardrop_69, Stayer_65, Sunny4976_65, Tenney120_70, Tribby_72, TrixiePhattel_70, Uzumaki_66, Xenomorph_65, YoshiYama_70, Zeina_71,

Summary by start number:

Start 17:

- Found in 26 of 112 (23.2%) of genes in pham
- Manual Annotations of this start: 16 of 91
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Altjira_71 (AU6), Argan_66 (AU6), Arzan_67 (FI), BarbieDoll_73 (AU6), Barbonzobean_72 (AU6), Biscute_69 (AU6), BlackHoleSun_71 (AU6), GantcherGoblin_67 (AU6), GermyBearimy_75 (FI), Jazzy4900_66 (FI), KevinMinion_67 (AU6), Kinny_72 (AU6), Leatheia_69 (AU6), Lewando_72 (AU6), Mardi_69 (AU6), Muglass_70 (AU6), Navi1117_71 (AU6), Phaila_69 (AU6), PoeMe_69 (AU6), Renaldo_77 (AU6), Stardrop_69 (AU6), Sunny4976_65 (FI), Tenney120_70 (AU6), TrixiePhattel_70 (AU6), Uzumaki_66 (AU6), Zeina_71 (AU6),

Start 18:

- Found in 23 of 112 (20.5%) of genes in pham
- Manual Annotations of this start: 21 of 91
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arcadia_69 (AM), BenitoAntonio_67 (AM), Benllo_66 (AM), Bowling_70 (AM), Cheesy_69 (AM), Circum_70 (AM), Correa_67 (AM), Dynamite_69 (AM), Elsa_69 (AM), GoCrazy_66 (AM), Hankly_68 (AM), Heisenberger_68 (AM), JEGGS_68 (AM), Kardesai_69 (AM), KeaneyLin_65 (AM), Mooshroom_70 (AM), Mudcat_65 (AM), NapoleonB_70 (AM), Nason_69 (AM), Stardom_68 (AM), Tribby_72 (AM), Xenomorph_65 (AM), YoshiYama_70 (AM),

Start 19:

- Found in 39 of 112 (34.8%) of genes in pham
- Manual Annotations of this start: 35 of 91
- Called 97.4% of time when present
- Phage (with cluster) where this start called: Acai_62 (AU1), Anandi_70 (AU4), AreFloNak_65 (AU1), Bouchard_66 (AU2), Breylor17_62 (AU1), Brunswick_63 (AU1), CapnMurica_60 (AU1), CastorTray_66 (AU1), Caterpillar_62 (AU4), Chlochlo_66 (AU2), Darby_61 (AU1), DevitoJr_62 (AU1), ElephantMan_62 (AU1), Giantsbane_66 (AU2), Gordon_60 (AU1), Ingrid_69 (AU3), Inked_68 (AU7), LilHuddy_67 (AU2), Loretta_66 (AU3), LucySwiss_62 (AU1), Makai_66 (AU5), MediumFry_63 (AU4), MiniBagel_62 (AU1), Nightmare_64 (AU1), Niktson_62 (AU1), Nivinsa_64 (AU1), Phaby_68 (AU2), ScienceWizSam_63 (AU1), Shepard_68 (AU2), Synopsis_61 (AU1), Teacup_63 (AU1), Tenno_63 (AU1), Tipton_67 (AU2), Tokki_71 (AU2), Truckee_64 (AU5), Trustiboi_62 (AU1), Westerlin_62 (AU1), Zippen_68 (AU7),

Start 20:

- Found in 24 of 112 (21.4%) of genes in pham
- Manual Annotations of this start: 19 of 91
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Boog_64 (AW), BronxBay_65 (AW), Djungelskog_64 (AW), DoctorPepper_64 (AW), Egad_65 (AW), HerbBucket_63 (AW), Jeremy4pt0_64 (AW), Linda_65 (AW), Michelle_65 (AW), MrAaronian_65 (AW), Natasha_67 (AW), Onestar_63 (AW), Powelldog_67 (AW), ProfFrink_65 (AW), Raunak_66 (AW), RustyBoy_68 (AW), Salk_65 (AW), Shiba_64 (AW), Sloopyjoe_65 (AW), Spain_65 (AW), Sporto_64 (AW), Sprinkle_64 (AW), StarLord_65 (AW), Stayer_65 (AW),

Start 32:

- Found in 30 of 112 (26.8%) of genes in pham
- No Manual Annotations of this start.
- Called 3.3% of time when present
- Phage (with cluster) where this start called: Dinallo_61 (AU1),

Summary by clusters:

There are 10 clusters represented in this pham: AU7, AM, AU1, AU3, AU2, AU5, AU4, AW, AU6, FI,

Info for manual annotations of cluster AM:

- Start number 18 was manually annotated 21 times for cluster AM.

Info for manual annotations of cluster AU1:

- Start number 19 was manually annotated 18 times for cluster AU1.

Info for manual annotations of cluster AU2:

- Start number 19 was manually annotated 8 times for cluster AU2.

Info for manual annotations of cluster AU3:

- Start number 19 was manually annotated 2 times for cluster AU3.

Info for manual annotations of cluster AU4:

- Start number 19 was manually annotated 3 times for cluster AU4.

Info for manual annotations of cluster AU5:

- Start number 19 was manually annotated 2 times for cluster AU5.

Info for manual annotations of cluster AU6:

- Start number 17 was manually annotated 16 times for cluster AU6.

Info for manual annotations of cluster AU7:

- Start number 19 was manually annotated 2 times for cluster AU7.

Info for manual annotations of cluster AW:

- Start number 20 was manually annotated 19 times for cluster AW.

Gene Information:

Gene: Acai_62 Start: 44324, Stop: 44614, Start Num: 19

Candidate Starts for Acai_62:

(Start: 19 @44324 has 35 MA's), (36, 44423), (40, 44462), (45, 44516), (46, 44525), (55, 44597),

Gene: Altjira_71 Start: 44527, Stop: 44862, Start Num: 17

Candidate Starts for Altjira_71:

(Start: 17 @44527 has 16 MA's), (26, 44593), (32, 44623), (40, 44698), (41, 44701), (42, 44707), (47, 44767), (49, 44773), (57, 44857),

Gene: Anandi_70 Start: 44977, Stop: 45264, Start Num: 19

Candidate Starts for Anandi_70:

(8, 44878), (11, 44899), (14, 44929), (Start: 19 @44977 has 35 MA's), (38, 45103), (40, 45112), (46, 45175),

Gene: Arcadia_69 Start: 43472, Stop: 43750, Start Num: 18

Candidate Starts for Arcadia_69:

(Start: 18 @43472 has 21 MA's), (23, 43517), (25, 43532), (27, 43550), (35, 43601), (41, 43649), (43, 43667),

Gene: AreFloNak_65 Start: 44289, Stop: 44579, Start Num: 19

Candidate Starts for AreFloNak_65:

(Start: 19 @44289 has 35 MA's), (32, 44352), (39, 44421), (45, 44481), (46, 44490), (56, 44565),

Gene: Argan_66 Start: 43247, Stop: 43582, Start Num: 17

Candidate Starts for Argan_66:

(Start: 17 @43247 has 16 MA's), (27, 43325), (39, 43412), (41, 43421), (42, 43427), (49, 43493), (57, 43577),

Gene: Arzan_67 Start: 44099, Stop: 44422, Start Num: 17

Candidate Starts for Arzan_67:

(Start: 17 @44099 has 16 MA's), (24, 44147), (32, 44189), (41, 44267), (49, 44339), (54, 44384),

Gene: BarbieDoll_73 Start: 44960, Stop: 45295, Start Num: 17

Candidate Starts for BarbieDoll_73:

(Start: 17 @44960 has 16 MA's), (26, 45026), (27, 45038), (29, 45047), (30, 45050), (38, 45122), (41, 45134), (42, 45140), (49, 45206), (57, 45290),

Gene: Barbonzobean_72 Start: 45208, Stop: 45543, Start Num: 17

Candidate Starts for Barbonzobean_72:

(Start: 17 @45208 has 16 MA's), (26, 45274), (27, 45286), (29, 45295), (30, 45298), (38, 45370), (41, 45382), (42, 45388), (49, 45454), (57, 45538),

Gene: BenitoAntonio_67 Start: 42507, Stop: 42785, Start Num: 18

Candidate Starts for BenitoAntonio_67:

(Start: 18 @42507 has 21 MA's), (23, 42552), (25, 42567), (27, 42585), (35, 42636), (41, 42684), (43, 42702), (48, 42750),

Gene: Benllo_66 Start: 43185, Stop: 43463, Start Num: 18

Candidate Starts for Benllo_66:

(Start: 18 @43185 has 21 MA's), (23, 43230), (25, 43245), (27, 43263), (35, 43314), (41, 43362), (43, 43380), (48, 43428),

Gene: Biscute_69 Start: 44612, Stop: 44947, Start Num: 17

Candidate Starts for Biscute_69:

(Start: 17 @44612 has 16 MA's), (26, 44678), (27, 44690), (29, 44699), (30, 44702), (38, 44774), (41, 44786), (42, 44792), (49, 44858), (57, 44942),

Gene: BlackHoleSun_71 Start: 43365, Stop: 43703, Start Num: 17

Candidate Starts for BlackHoleSun_71:

(Start: 17 @43365 has 16 MA's), (26, 43434), (32, 43464), (38, 43530), (39, 43533), (41, 43542), (49, 43614), (54, 43659), (57, 43698),

Gene: Boog_64 Start: 42243, Stop: 42494, Start Num: 20

Candidate Starts for Boog_64:

(Start: 20 @42243 has 19 MA's), (34, 42330), (37, 42363), (40, 42387), (41, 42390),

Gene: Bouchard_66 Start: 44943, Stop: 45233, Start Num: 19

Candidate Starts for Bouchard_66:

(14, 44892), (16, 44904), (Start: 19 @44943 has 35 MA's), (32, 45006), (46, 45144), (56, 45219),

Gene: Bowling_70 Start: 43461, Stop: 43739, Start Num: 18

Candidate Starts for Bowling_70:

(Start: 18 @43461 has 21 MA's), (23, 43506), (27, 43539), (35, 43590), (41, 43638), (43, 43656), (48, 43704),

Gene: Breylor17_62 Start: 44864, Stop: 45154, Start Num: 19

Candidate Starts for Breylor17_62:

(Start: 19 @44864 has 35 MA's), (31, 44924), (46, 45065), (56, 45140),

Gene: BronxBay_65 Start: 42499, Stop: 42750, Start Num: 20

Candidate Starts for BronxBay_65:

(Start: 20 @42499 has 19 MA's), (34, 42586), (37, 42619), (40, 42643), (41, 42646), (51, 42727),

Gene: Brunswick_63 Start: 44167, Stop: 44457, Start Num: 19

Candidate Starts for Brunswick_63:

(Start: 19 @44167 has 35 MA's), (36, 44266), (40, 44305), (45, 44359), (46, 44368), (55, 44440),

Gene: CapnMurica_60 Start: 45050, Stop: 45340, Start Num: 19

Candidate Starts for CapnMurica_60:

(4, 44933), (14, 45002), (Start: 19 @45050 has 35 MA's), (32, 45113), (40, 45188), (46, 45251), (55, 45323),

Gene: CastorTray_66 Start: 45053, Stop: 45343, Start Num: 19

Candidate Starts for CastorTray_66:

(Start: 19 @45053 has 35 MA's), (31, 45113), (46, 45254), (56, 45329),

Gene: Caterpillar_62 Start: 43978, Stop: 44268, Start Num: 19

Candidate Starts for Caterpillar_62:

(12, 43921), (14, 43930), (Start: 19 @43978 has 35 MA's), (31, 44038), (36, 44077), (39, 44110), (46, 44179), (55, 44251), (56, 44254),

Gene: Cheesy_69 Start: 42699, Stop: 42977, Start Num: 18

Candidate Starts for Cheesy_69:

(Start: 18 @42699 has 21 MA's), (23, 42744), (27, 42777), (35, 42828), (41, 42876), (43, 42894), (44, 42921), (48, 42942),

Gene: Chlochlo_66 Start: 44469, Stop: 44759, Start Num: 19

Candidate Starts for Chlocho_66:

(14, 44418), (16, 44430), (Start: 19 @44469 has 35 MA's), (32, 44532), (46, 44670), (55, 44742), (56, 44745),

Gene: Circum_70 Start: 43275, Stop: 43553, Start Num: 18

Candidate Starts for Circum_70:

(Start: 18 @43275 has 21 MA's), (23, 43320), (25, 43335), (27, 43353), (35, 43404), (41, 43452), (43, 43470), (48, 43518),

Gene: Correa_67 Start: 42273, Stop: 42551, Start Num: 18

Candidate Starts for Correa_67:

(Start: 18 @42273 has 21 MA's), (23, 42318), (27, 42351), (35, 42402), (41, 42450), (43, 42468), (44, 42495), (48, 42516),

Gene: Darby_61 Start: 44099, Stop: 44389, Start Num: 19

Candidate Starts for Darby_61:

(Start: 19 @44099 has 35 MA's), (31, 44159), (32, 44162), (46, 44300), (56, 44375),

Gene: DevitoJr_62 Start: 44485, Stop: 44775, Start Num: 19

Candidate Starts for DevitoJr_62:

(Start: 19 @44485 has 35 MA's), (31, 44545), (32, 44548), (39, 44617), (46, 44686), (56, 44761),

Gene: Dinallo_61 Start: 45423, Stop: 45650, Start Num: 32

Candidate Starts for Dinallo_61:

(Start: 19 @45360 has 35 MA's), (32, 45423), (40, 45498), (46, 45561), (56, 45636),

Gene: Djungelskog_64 Start: 42498, Stop: 42749, Start Num: 20

Candidate Starts for Djungelskog_64:

(Start: 20 @42498 has 19 MA's), (34, 42585), (37, 42618), (40, 42642), (41, 42645), (51, 42726),

Gene: DoctorPepper_64 Start: 42203, Stop: 42454, Start Num: 20

Candidate Starts for DoctorPepper_64:

(Start: 20 @42203 has 19 MA's), (34, 42290), (37, 42323), (40, 42347), (41, 42350), (51, 42431),

Gene: Dynamite_69 Start: 43288, Stop: 43566, Start Num: 18

Candidate Starts for Dynamite_69:

(Start: 18 @43288 has 21 MA's), (23, 43333), (25, 43348), (27, 43366), (35, 43417), (41, 43465), (43, 43483), (48, 43531),

Gene: Egad_65 Start: 42494, Stop: 42745, Start Num: 20

Candidate Starts for Egad_65:

(Start: 20 @42494 has 19 MA's), (34, 42581), (37, 42614), (40, 42638), (41, 42641),

Gene: ElephantMan_62 Start: 44797, Stop: 45087, Start Num: 19

Candidate Starts for ElephantMan_62:

(Start: 19 @44797 has 35 MA's), (36, 44896), (40, 44935), (45, 44989), (46, 44998), (55, 45070),

Gene: Elsa_69 Start: 43472, Stop: 43750, Start Num: 18

Candidate Starts for Elsa_69:

(Start: 18 @43472 has 21 MA's), (23, 43517), (25, 43532), (27, 43550), (35, 43601), (41, 43649), (43, 43667),

Gene: GantcherGoblin_67 Start: 43303, Stop: 43638, Start Num: 17

Candidate Starts for GantcherGoblin_67:

(Start: 17 @43303 has 16 MA's), (27, 43381), (39, 43468), (41, 43477), (42, 43483), (49, 43549), (53, 43585), (54, 43594), (57, 43633),

Gene: GermyBearimy_75 Start: 45669, Stop: 45992, Start Num: 17

Candidate Starts for GermyBearimy_75:

(Start: 17 @45669 has 16 MA's), (24, 45717), (32, 45759), (41, 45837), (49, 45909), (54, 45954),

Gene: Giantsbane_66 Start: 43674, Stop: 43961, Start Num: 19

Candidate Starts for Giantsbane_66:

(14, 43623), (Start: 19 @43674 has 35 MA's), (32, 43734), (46, 43872), (55, 43944), (56, 43947),

Gene: GoCrazy_66 Start: 42732, Stop: 43010, Start Num: 18

Candidate Starts for GoCrazy_66:

(Start: 18 @42732 has 21 MA's), (23, 42777), (25, 42792), (27, 42810), (35, 42861), (41, 42909), (43, 42927),

Gene: Gordon_60 Start: 44977, Stop: 45267, Start Num: 19

Candidate Starts for Gordon_60:

(Start: 19 @44977 has 35 MA's), (31, 45037), (33, 45052), (39, 45109), (46, 45178), (56, 45253),

Gene: Hankly_68 Start: 42356, Stop: 42634, Start Num: 18

Candidate Starts for Hankly_68:

(Start: 18 @42356 has 21 MA's), (23, 42401), (25, 42416), (27, 42434), (35, 42485), (41, 42533), (43, 42551), (48, 42599),

Gene: Heisenberger_68 Start: 42694, Stop: 42972, Start Num: 18

Candidate Starts for Heisenberger_68:

(Start: 18 @42694 has 21 MA's), (23, 42739), (25, 42754), (27, 42772), (35, 42823), (41, 42871), (43, 42889), (48, 42937),

Gene: HerbBucket_63 Start: 42225, Stop: 42476, Start Num: 20

Candidate Starts for HerbBucket_63:

(Start: 20 @42225 has 19 MA's), (34, 42312), (37, 42345), (40, 42369), (41, 42372),

Gene: Ingrid_69 Start: 44855, Stop: 45154, Start Num: 19

Candidate Starts for Ingrid_69:

(7, 44753), (Start: 19 @44855 has 35 MA's), (40, 45002), (46, 45065), (55, 45137), (56, 45140),

Gene: Inked_68 Start: 45528, Stop: 45815, Start Num: 19

Candidate Starts for Inked_68:

(9, 45441), (11, 45450), (14, 45480), (Start: 19 @45528 has 35 MA's), (38, 45654), (46, 45726), (56, 45801),

Gene: JEGGS_68 Start: 42773, Stop: 43051, Start Num: 18

Candidate Starts for JEGGS_68:

(Start: 18 @42773 has 21 MA's), (23, 42818), (25, 42833), (27, 42851), (35, 42902), (41, 42950), (43, 42968), (48, 43016),

Gene: Jazzy4900_66 Start: 44859, Stop: 45188, Start Num: 17

Candidate Starts for Jazzy4900_66:

(Start: 17 @44859 has 16 MA's), (32, 44955), (41, 45033),

Gene: Jeremy4pt0_64 Start: 42198, Stop: 42449, Start Num: 20

Candidate Starts for Jeremy4pt0_64:

(Start: 20 @42198 has 19 MA's), (34, 42285), (37, 42318), (40, 42342), (41, 42345), (51, 42426),

Gene: Kardesai_69 Start: 43082, Stop: 43360, Start Num: 18

Candidate Starts for Kardesai_69:

(Start: 18 @43082 has 21 MA's), (23, 43127), (25, 43142), (27, 43160), (35, 43211), (41, 43259), (43, 43277),

Gene: KeaneyLin_65 Start: 42732, Stop: 43010, Start Num: 18

Candidate Starts for KeaneyLin_65:

(Start: 18 @42732 has 21 MA's), (23, 42777), (25, 42792), (27, 42810), (35, 42861), (41, 42909), (43, 42927),

Gene: KevinMinion_67 Start: 44198, Stop: 44533, Start Num: 17

Candidate Starts for KevinMinion_67:

(5, 44117), (Start: 17 @44198 has 16 MA's), (26, 44264), (32, 44294), (35, 44324), (40, 44369), (41, 44372), (42, 44378), (49, 44444), (57, 44528),

Gene: Kinny_72 Start: 45440, Stop: 45775, Start Num: 17

Candidate Starts for Kinny_72:

(Start: 17 @45440 has 16 MA's), (26, 45506), (27, 45518), (29, 45527), (30, 45530), (38, 45602), (41, 45614), (42, 45620), (49, 45686), (57, 45770),

Gene: Leathea_69 Start: 43211, Stop: 43540, Start Num: 17

Candidate Starts for Leathea_69:

(Start: 17 @43211 has 16 MA's), (27, 43289), (28, 43295), (33, 43319), (38, 43373), (41, 43385), (42, 43391), (49, 43457), (50, 43460),

Gene: Lewando_72 Start: 45032, Stop: 45367, Start Num: 17

Candidate Starts for Lewando_72:

(Start: 17 @45032 has 16 MA's), (26, 45098), (27, 45110), (29, 45119), (30, 45122), (38, 45194), (41, 45206), (42, 45212), (49, 45278), (57, 45362),

Gene: LilHuddy_67 Start: 44781, Stop: 45074, Start Num: 19

Candidate Starts for LilHuddy_67:

(16, 44742), (Start: 19 @44781 has 35 MA's), (40, 44922), (46, 44985),

Gene: Linda_65 Start: 42496, Stop: 42747, Start Num: 20

Candidate Starts for Linda_65:

(Start: 20 @42496 has 19 MA's), (34, 42583), (37, 42616), (40, 42640), (41, 42643), (51, 42724),

Gene: Loretta_66 Start: 44855, Stop: 45154, Start Num: 19

Candidate Starts for Loretta_66:

(7, 44753), (Start: 19 @44855 has 35 MA's), (40, 45002), (46, 45065), (55, 45137), (56, 45140),

Gene: LucySwiss_62 Start: 43948, Stop: 44238, Start Num: 19

Candidate Starts for LucySwiss_62:

(Start: 19 @43948 has 35 MA's), (36, 44047), (40, 44086), (45, 44140), (46, 44149), (55, 44221),

Gene: Makai_66 Start: 44929, Stop: 45228, Start Num: 19

Candidate Starts for Makai_66:

(Start: 19 @44929 has 35 MA's), (40, 45076), (46, 45139), (55, 45211), (56, 45214),

Gene: Mardi_69 Start: 43768, Stop: 44103, Start Num: 17

Candidate Starts for Mardi_69:

(Start: 17 @43768 has 16 MA's), (26, 43834), (32, 43864), (40, 43939), (41, 43942), (42, 43948), (49, 44014), (57, 44098),

Gene: MediumFry_63 Start: 44274, Stop: 44564, Start Num: 19

Candidate Starts for MediumFry_63:

(12, 44217), (14, 44226), (Start: 19 @44274 has 35 MA's), (31, 44334), (36, 44373), (39, 44406), (46, 44475), (55, 44547), (56, 44550),

Gene: Michelle_65 Start: 42498, Stop: 42749, Start Num: 20

Candidate Starts for Michelle_65:

(Start: 20 @42498 has 19 MA's), (34, 42585), (37, 42618), (40, 42642), (41, 42645), (51, 42726),

Gene: MiniBagel_62 Start: 45041, Stop: 45331, Start Num: 19

Candidate Starts for MiniBagel_62:

(Start: 19 @45041 has 35 MA's), (32, 45104), (40, 45179), (46, 45242), (56, 45317),

Gene: Mooshroom_70 Start: 43082, Stop: 43360, Start Num: 18

Candidate Starts for Mooshroom_70:

(Start: 18 @43082 has 21 MA's), (23, 43127), (25, 43142), (27, 43160), (35, 43211), (41, 43259), (43, 43277),

Gene: MrAaronian_65 Start: 42498, Stop: 42749, Start Num: 20

Candidate Starts for MrAaronian_65:

(Start: 20 @42498 has 19 MA's), (34, 42585), (37, 42618), (40, 42642), (41, 42645), (51, 42726),

Gene: Mudcat_65 Start: 44131, Stop: 44409, Start Num: 18

Candidate Starts for Mudcat_65:

(Start: 18 @44131 has 21 MA's), (23, 44176), (25, 44191), (27, 44209), (35, 44260), (41, 44308), (43, 44326), (48, 44374),

Gene: Muglass_70 Start: 44516, Stop: 44851, Start Num: 17

Candidate Starts for Muglass_70:

(Start: 17 @44516 has 16 MA's), (26, 44582), (27, 44594), (29, 44603), (30, 44606), (38, 44678), (41, 44690), (42, 44696), (49, 44762), (57, 44846),

Gene: NapoleonB_70 Start: 43288, Stop: 43566, Start Num: 18

Candidate Starts for NapoleonB_70:

(Start: 18 @43288 has 21 MA's), (23, 43333), (25, 43348), (27, 43366), (35, 43417), (41, 43465), (43, 43483), (48, 43531),

Gene: Nason_69 Start: 43472, Stop: 43750, Start Num: 18

Candidate Starts for Nason_69:

(Start: 18 @43472 has 21 MA's), (23, 43517), (25, 43532), (27, 43550), (35, 43601), (41, 43649), (43, 43667),

Gene: Natasha_67 Start: 42448, Stop: 42690, Start Num: 20

Candidate Starts for Natasha_67:

(Start: 20 @42448 has 19 MA's), (39, 42586), (40, 42592), (41, 42595), (49, 42667),

Gene: Navi1117_71 Start: 44207, Stop: 44542, Start Num: 17

Candidate Starts for Navi1117_71:

(Start: 17 @44207 has 16 MA's), (26, 44273), (32, 44303), (40, 44378), (41, 44381), (42, 44387), (49, 44453), (54, 44498), (57, 44537),

Gene: Nightmare_64 Start: 45339, Stop: 45629, Start Num: 19

Candidate Starts for Nightmare_64:

(Start: 19 @45339 has 35 MA's), (32, 45402), (46, 45540), (56, 45615),

Gene: Niktson_62 Start: 44797, Stop: 45087, Start Num: 19

Candidate Starts for Niktson_62:

(Start: 19 @44797 has 35 MA's), (36, 44896), (40, 44935), (45, 44989), (46, 44998), (55, 45070),

Gene: Nivinsha_64 Start: 44289, Stop: 44579, Start Num: 19

Candidate Starts for Nivinsha_64:

(Start: 19 @44289 has 35 MA's), (32, 44352), (39, 44421), (45, 44481), (46, 44490), (56, 44565),

Gene: Onestar_63 Start: 42253, Stop: 42513, Start Num: 20

Candidate Starts for Onestar_63:

(Start: 20 @42253 has 19 MA's), (39, 42391), (41, 42400), (43, 42418),

Gene: Phaby_68 Start: 45345, Stop: 45635, Start Num: 19

Candidate Starts for Phaby_68:

(14, 45294), (16, 45306), (Start: 19 @45345 has 35 MA's), (40, 45483), (46, 45546), (55, 45618), (56, 45621),

Gene: Phaila_69 Start: 43433, Stop: 43768, Start Num: 17

Candidate Starts for Phaila_69:

(Start: 17 @43433 has 16 MA's), (26, 43499), (32, 43529), (40, 43604), (41, 43607), (42, 43613), (49, 43679), (54, 43724), (57, 43763),

Gene: PoeMe_69 Start: 43918, Stop: 44256, Start Num: 17

Candidate Starts for PoeMe_69:

(Start: 17 @43918 has 16 MA's), (26, 43987), (32, 44017), (38, 44083), (39, 44086), (49, 44167), (54, 44212), (57, 44251),

Gene: Powelldog_67 Start: 42912, Stop: 43187, Start Num: 20

Candidate Starts for Powelldog_67:

(2, 42711), (Start: 20 @42912 has 19 MA's), (22, 42924), (34, 42999), (41, 43059), (52, 43161),

Gene: ProfFrink_65 Start: 42493, Stop: 42744, Start Num: 20

Candidate Starts for ProfFrink_65:

(Start: 20 @42493 has 19 MA's), (34, 42580), (37, 42613), (40, 42637), (41, 42640),

Gene: Raunak_66 Start: 42154, Stop: 42405, Start Num: 20

Candidate Starts for Raunak_66:

(Start: 20 @42154 has 19 MA's), (34, 42241), (37, 42274), (40, 42298), (41, 42301),

Gene: Renaldo_77 Start: 45398, Stop: 45733, Start Num: 17

Candidate Starts for Renaldo_77:

(Start: 17 @45398 has 16 MA's), (26, 45464), (27, 45476), (29, 45485), (30, 45488), (41, 45572), (42, 45578), (49, 45644), (57, 45728),

Gene: RustyBoy_68 Start: 42647, Stop: 42889, Start Num: 20

Candidate Starts for RustyBoy_68:

(2, 42443), (3, 42479), (Start: 20 @42647 has 19 MA's), (39, 42785), (40, 42791), (41, 42794), (49, 42866),

Gene: Salk_65 Start: 42496, Stop: 42747, Start Num: 20

Candidate Starts for Salk_65:

(Start: 20 @42496 has 19 MA's), (34, 42583), (37, 42616), (40, 42640), (41, 42643), (51, 42724),

Gene: ScienceWizSam_63 Start: 44451, Stop: 44792, Start Num: 19

Candidate Starts for ScienceWizSam_63:

(Start: 19 @44451 has 35 MA's), (31, 44511), (39, 44583), (46, 44652), (56, 44727), (58, 44775),

Gene: Shepard_68 Start: 44640, Stop: 44933, Start Num: 19

Candidate Starts for Shepard_68:

(14, 44589), (16, 44601), (Start: 19 @44640 has 35 MA's), (40, 44781), (46, 44844),

Gene: Shiba_64 Start: 42154, Stop: 42405, Start Num: 20

Candidate Starts for Shiba_64:

(Start: 20 @42154 has 19 MA's), (34, 42241), (37, 42274), (40, 42298), (41, 42301), (51, 42382),

Gene: Sloopyjoe_65 Start: 42500, Stop: 42751, Start Num: 20

Candidate Starts for Sloopyjoe_65:

(Start: 20 @42500 has 19 MA's), (34, 42587), (37, 42620), (40, 42644), (41, 42647), (51, 42728),

Gene: Spain_65 Start: 42498, Stop: 42749, Start Num: 20

Candidate Starts for Spain_65:

(Start: 20 @42498 has 19 MA's), (34, 42585), (37, 42618), (40, 42642), (41, 42645), (51, 42726),

Gene: Sporto_64 Start: 43615, Stop: 43866, Start Num: 20

Candidate Starts for Sporto_64:

(Start: 20 @43615 has 19 MA's), (40, 43759), (41, 43762), (51, 43843),

Gene: Sprinkle_64 Start: 42655, Stop: 42927, Start Num: 20

Candidate Starts for Sprinkle_64:

(1, 42430), (6, 42541), (10, 42568), (11, 42571), (13, 42595), (15, 42604), (Start: 20 @42655 has 19 MA's), (34, 42742), (35, 42754), (41, 42802), (49, 42874), (52, 42904),

Gene: StarLord_65 Start: 42493, Stop: 42744, Start Num: 20

Candidate Starts for StarLord_65:

(Start: 20 @42493 has 19 MA's), (34, 42580), (37, 42613), (40, 42637), (41, 42640), (51, 42721),

Gene: Stardom_68 Start: 42069, Stop: 42347, Start Num: 18

Candidate Starts for Stardom_68:

(Start: 18 @42069 has 21 MA's), (23, 42114), (25, 42129), (27, 42147), (35, 42198), (41, 42246), (43, 42264), (48, 42312),

Gene: Stardrop_69 Start: 44020, Stop: 44358, Start Num: 17

Candidate Starts for Stardrop_69:

(Start: 17 @44020 has 16 MA's), (26, 44089), (32, 44119), (38, 44185), (39, 44188), (41, 44197), (49, 44269), (54, 44314), (57, 44353),

Gene: Stayer_65 Start: 42496, Stop: 42747, Start Num: 20

Candidate Starts for Stayer_65:

(Start: 20 @42496 has 19 MA's), (34, 42583), (37, 42616), (40, 42640), (41, 42643), (51, 42724),

Gene: Sunny4976_65 Start: 44859, Stop: 45188, Start Num: 17

Candidate Starts for Sunny4976_65:

(Start: 17 @44859 has 16 MA's), (32, 44955), (41, 45033),

Gene: Synopsis_61 Start: 44455, Stop: 44742, Start Num: 19

Candidate Starts for Synopsis_61:

(Start: 19 @44455 has 35 MA's), (31, 44512), (32, 44515), (46, 44653), (56, 44728),

Gene: Teacup_63 Start: 44876, Stop: 45166, Start Num: 19

Candidate Starts for Teacup_63:

(Start: 19 @44876 has 35 MA's), (36, 44975), (40, 45014), (45, 45068), (46, 45077), (55, 45149),

Gene: Tenney120_70 Start: 43963, Stop: 44298, Start Num: 17

Candidate Starts for Tenney120_70:

(Start: 17 @43963 has 16 MA's), (27, 44041), (39, 44128), (41, 44137), (42, 44143), (49, 44209), (53, 44245), (54, 44254), (57, 44293),

Gene: Tenno_63 Start: 45105, Stop: 45395, Start Num: 19

Candidate Starts for Tenno_63:

(14, 45057), (Start: 19 @45105 has 35 MA's), (32, 45168), (40, 45243), (46, 45306), (56, 45381),

Gene: Tipton_67 Start: 44963, Stop: 45253, Start Num: 19

Candidate Starts for Tipton_67:

(14, 44912), (16, 44924), (Start: 19 @44963 has 35 MA's), (32, 45026), (46, 45164), (55, 45236), (56, 45239),

Gene: Tokki_71 Start: 44994, Stop: 45284, Start Num: 19

Candidate Starts for Tokki_71:

(14, 44943), (16, 44955), (Start: 19 @44994 has 35 MA's), (46, 45195), (55, 45267), (56, 45270),

Gene: Tribby_72 Start: 43659, Stop: 43937, Start Num: 18

Candidate Starts for Tribby_72:

(Start: 18 @43659 has 21 MA's), (23, 43704), (27, 43737), (35, 43788), (41, 43836), (43, 43854), (44, 43881), (48, 43902),

Gene: TrixiePhattel_70 Start: 43595, Stop: 43930, Start Num: 17

Candidate Starts for TrixiePhattel_70:

(Start: 17 @43595 has 16 MA's), (26, 43661), (32, 43691), (40, 43766), (41, 43769), (49, 43841), (57, 43925),

Gene: Truckee_64 Start: 44713, Stop: 45012, Start Num: 19

Candidate Starts for Truckee_64:

(Start: 19 @44713 has 35 MA's), (40, 44860), (46, 44923), (55, 44995), (56, 44998),

Gene: Trustiboi_62 Start: 44710, Stop: 44997, Start Num: 19

Candidate Starts for Trustiboi_62:

(Start: 19 @44710 has 35 MA's), (31, 44767), (32, 44770), (46, 44908), (56, 44983),

Gene: Uzumaki_66 Start: 43404, Stop: 43739, Start Num: 17

Candidate Starts for Uzumaki_66:

(Start: 17 @43404 has 16 MA's), (27, 43482), (39, 43569), (41, 43578), (42, 43584), (49, 43650), (53, 43686), (54, 43695), (57, 43734),

Gene: Westerlin_62 Start: 45796, Stop: 46086, Start Num: 19

Candidate Starts for Westerlin_62:

(Start: 19 @45796 has 35 MA's), (31, 45856), (32, 45859), (33, 45871), (39, 45928), (46, 45997), (56, 46072),

Gene: Xenomorph_65 Start: 43143, Stop: 43421, Start Num: 18

Candidate Starts for Xenomorph_65:

(Start: 18 @43143 has 21 MA's), (23, 43188), (25, 43203), (27, 43221), (35, 43272), (41, 43320), (43, 43338), (44, 43365), (48, 43386),

Gene: YoshiYama_70 Start: 43715, Stop: 43993, Start Num: 18

Candidate Starts for YoshiYama_70:

(Start: 18 @43715 has 21 MA's), (23, 43760), (25, 43775), (27, 43793), (35, 43844), (41, 43892), (43, 43910), (48, 43958),

Gene: Zeina_71 Start: 44101, Stop: 44436, Start Num: 17

Candidate Starts for Zeina_71:

(Start: 17 @44101 has 16 MA's), (26, 44167), (32, 44197), (39, 44266), (40, 44272), (41, 44275), (49, 44347), (57, 44431),

Gene: Zippen_68 Start: 45396, Stop: 45683, Start Num: 19

Candidate Starts for Zippen_68:

(9, 45309), (11, 45318), (14, 45348), (Start: 19 @45396 has 35 MA's), (21, 45405), (38, 45522), (46, 45594), (56, 45669),