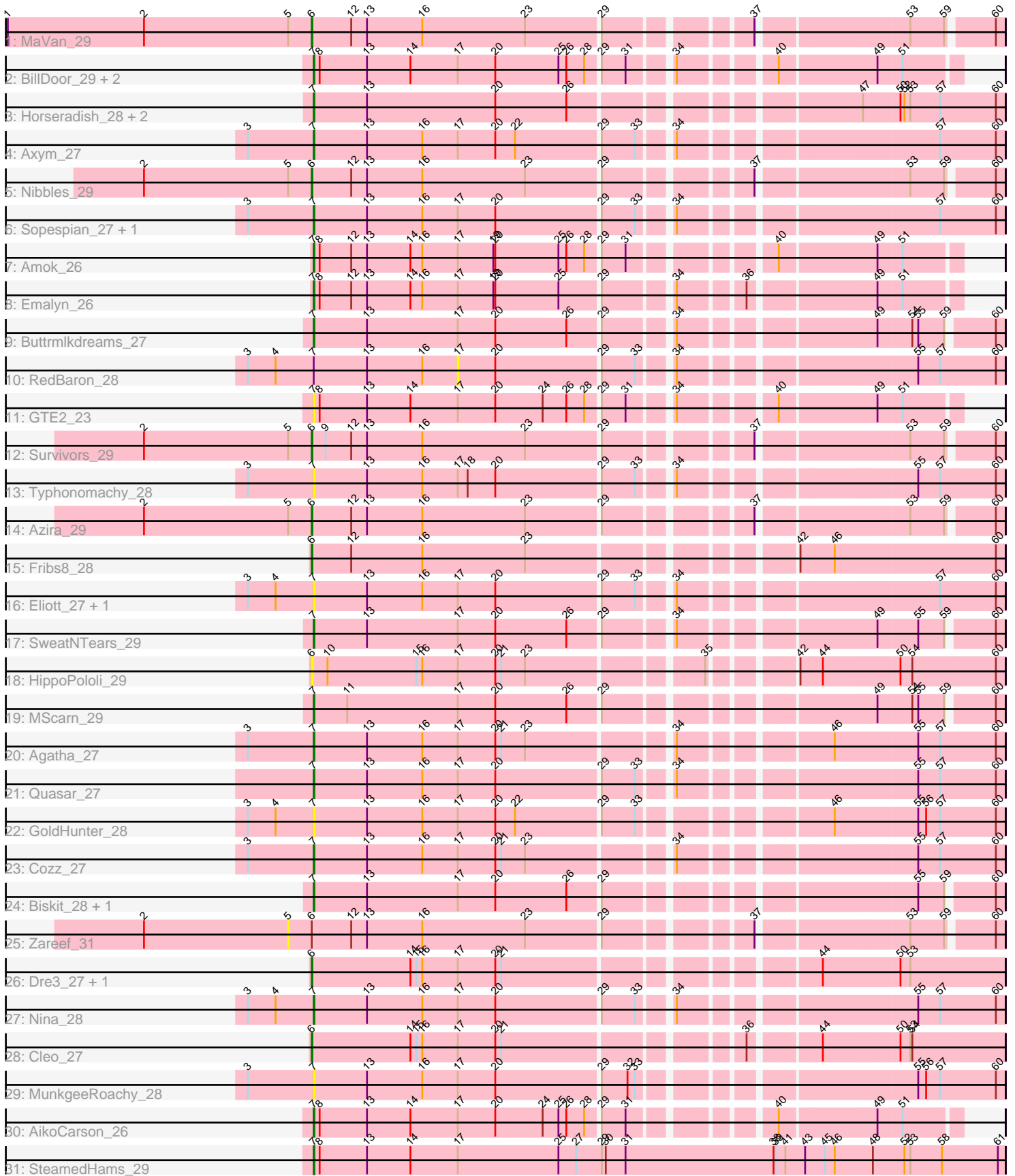


Pham 163744



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 163744 Report

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

Pham number 163744 has 39 members, 10 are drafts.

Phages represented in each track:

- Track 1 : MaVan_29
- Track 2 : BillDoor_29, AndPeggy_26, Yarn_26
- Track 3 : Horseradish_28, Yummy_28, Troje_27
- Track 4 : Axym_27
- Track 5 : Nibbles_29
- Track 6 : Sopespian_27, Burnsey_27
- Track 7 : Amok_26
- Track 8 : Emalyn_26
- Track 9 : Buttrmlkdreams_27
- Track 10 : RedBaron_28
- Track 11 : GTE2_23
- Track 12 : Survivors_29
- Track 13 : Typhonomachy_28
- Track 14 : Azira_29
- Track 15 : Fribs8_28
- Track 16 : Elliott_27, PsychoKiller_27
- Track 17 : SweatNTears_29
- Track 18 : HippoPololi_29
- Track 19 : MScarn_29
- Track 20 : Agatha_27
- Track 21 : Quasar_27
- Track 22 : GoldHunter_28
- Track 23 : Cozz_27
- Track 24 : Biskit_28, SketchMex_26
- Track 25 : Zareef_31
- Track 26 : Dre3_27, Gibbous_27
- Track 27 : Nina_28
- Track 28 : Cleo_27
- Track 29 : MunkgeeRoachy_28
- Track 30 : AikoCarson_26
- Track 31 : SteamedHams_29

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

The start number called the most often in the published annotations is 7, it was called in 21 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Agatha_27, AikoCarson_26, Amok_26, AndPeggy_26, Axym_27, BillDoor_29, Biskit_28, Burnsey_27, Buttrmlkdreams_27, Cozz_27, Elliott_27, Emalyn_26, GTE2_23, GoldHunter_28, Horseradish_28, MScarn_29, MunkgeeRoachy_28, Nina_28, PsychoKiller_27, Quasar_27, SketchMex_26, Sopespian_27, SteamedHams_29, SweatNTears_29, Troje_27, Typhonomachy_28, Yarn_26, Yummy_28,

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

- RedBaron_28,

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

- Azira_29, Cleo_27, Dre3_27, Fribs8_28, Gibbous_27, HippoPololi_29, MaVan_29, Nibbles_29, Survivors_29, Zareef_31,

Summary by start number:

Start 5:

- Found in 5 of 39 (12.8%) of genes in pham
- No Manual Annotations of this start.
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Zareef_31 (CT),

Start 6:

- Found in 10 of 39 (25.6%) of genes in pham
- Manual Annotations of this start: 8 of 29
- Called 90.0% of time when present
- Phage (with cluster) where this start called: Azira_29 (CT), Cleo_27 (CT), Dre3_27 (CT), Fribs8_28 (CT), Gibbous_27 (CT), HippoPololi_29 (CT), MaVan_29 (CT), Nibbles_29 (CT), Survivors_29 (CT),

Start 7:

- Found in 29 of 39 (74.4%) of genes in pham
- Manual Annotations of this start: 21 of 29
- Called 96.6% of time when present
- Phage (with cluster) where this start called: Agatha_27 (CT), AikoCarson_26 (CT), Amok_26 (CT), AndPeggy_26 (CT), Axym_27 (CT), BillDoor_29 (CT), Biskit_28 (CT), Burnsey_27 (CT), Buttrmlkdreams_27 (CT), Cozz_27 (CT), Elliott_27 (CT), Emalyn_26 (CT), GTE2_23 (CT), GoldHunter_28 (CT), Horseradish_28 (CT), MScarn_29 (CT), MunkgeeRoachy_28 (CT), Nina_28 (CT), PsychoKiller_27 (CT), Quasar_27 (CT), SketchMex_26 (CT), Sopespian_27 (CT), SteamedHams_29 (CT), SweatNTears_29 (CT), Troje_27 (CT), Typhonomachy_28 (CT), Yarn_26 (CT), Yummy_28 (CT),

Start 17:

- Found in 30 of 39 (76.9%) of genes in pham
- No Manual Annotations of this start.
- Called 3.3% of time when present
- Phage (with cluster) where this start called: RedBaron_28 (CT),

Summary by clusters:

There is one cluster represented in this pham: CT

Info for manual annotations of cluster CT:

- Start number 6 was manually annotated 8 times for cluster CT.
- Start number 7 was manually annotated 21 times for cluster CT.

Gene Information:

Gene: Agatha_27 Start: 21963, Stop: 22928, Start Num: 7

Candidate Starts for Agatha_27:

(3, 21864), (Start: 7 @21963 has 21 MA's), (13, 22044), (16, 22128), (17, 22182), (20, 22239), (21, 22248), (23, 22284), (34, 22482), (46, 22677), (55, 22797), (57, 22830), (60, 22914),

Gene: AikoCarson_26 Start: 21241, Stop: 22128, Start Num: 7

Candidate Starts for AikoCarson_26:

(Start: 7 @21241 has 21 MA's), (8, 21250), (13, 21322), (14, 21388), (17, 21460), (20, 21517), (24, 21589), (25, 21613), (26, 21625), (28, 21652), (29, 21670), (31, 21706), (40, 21880), (49, 22018), (51, 22048),

Gene: Amok_26 Start: 21201, Stop: 22088, Start Num: 7

Candidate Starts for Amok_26:

(Start: 7 @21201 has 21 MA's), (8, 21210), (12, 21258), (13, 21282), (14, 21348), (16, 21366), (17, 21420), (19, 21474), (20, 21477), (25, 21573), (26, 21585), (28, 21612), (29, 21630), (31, 21666), (40, 21840), (49, 21978), (51, 22008),

Gene: AndPeggy_26 Start: 21647, Stop: 22534, Start Num: 7

Candidate Starts for AndPeggy_26:

(Start: 7 @21647 has 21 MA's), (8, 21656), (13, 21728), (14, 21794), (17, 21866), (20, 21923), (25, 22019), (26, 22031), (28, 22058), (29, 22076), (31, 22112), (34, 22166), (40, 22286), (49, 22424), (51, 22454),

Gene: Axym_27 Start: 21966, Stop: 22931, Start Num: 7

Candidate Starts for Axym_27:

(3, 21867), (Start: 7 @21966 has 21 MA's), (13, 22047), (16, 22131), (17, 22185), (20, 22242), (22, 22272), (29, 22395), (33, 22443), (34, 22485), (57, 22833), (60, 22917),

Gene: Azira_29 Start: 22942, Stop: 23892, Start Num: 6

Candidate Starts for Azira_29:

(2, 22687), (5, 22906), (Start: 6 @22942 has 8 MA's), (12, 22999), (13, 23023), (16, 23107), (23, 23263), (29, 23371), (37, 23557), (53, 23764), (59, 23815), (60, 23878),

Gene: BillDoor_29 Start: 21594, Stop: 22481, Start Num: 7

Candidate Starts for BillDoor_29:

(Start: 7 @21594 has 21 MA's), (8, 21603), (13, 21675), (14, 21741), (17, 21813), (20, 21870), (25, 21966), (26, 21978), (28, 22005), (29, 22023), (31, 22059), (34, 22113), (40, 22233), (49, 22371), (51, 22401),

Gene: Biskit_28 Start: 21620, Stop: 22570, Start Num: 7

Candidate Starts for Biskit_28:

(Start: 7 @21620 has 21 MA's), (13, 21701), (17, 21839), (20, 21896), (26, 22004), (29, 22049), (55, 22454), (59, 22493), (60, 22556),

Gene: Burnsey_27 Start: 21967, Stop: 22923, Start Num: 7

Candidate Starts for Burnsey_27:

(3, 21868), (Start: 7 @21967 has 21 MA's), (13, 22048), (16, 22132), (17, 22186), (20, 22234), (29, 22387), (33, 22435), (34, 22477), (57, 22825), (60, 22909),

Gene: Buttrmlkdreams_27 Start: 21602, Stop: 22552, Start Num: 7

Candidate Starts for Buttrmlkdreams_27:

(Start: 7 @21602 has 21 MA's), (13, 21683), (17, 21821), (20, 21878), (26, 21986), (29, 22031), (34, 22121), (49, 22379), (54, 22427), (55, 22436), (59, 22475), (60, 22538),

Gene: Cleo_27 Start: 22293, Stop: 23258, Start Num: 6

Candidate Starts for Cleo_27:

(Start: 6 @22293 has 8 MA's), (14, 22440), (15, 22449), (16, 22458), (17, 22512), (20, 22569), (21, 22578), (36, 22896), (44, 22989), (50, 23100), (53, 23115), (54, 23118),

Gene: Cozz_27 Start: 21967, Stop: 22932, Start Num: 7

Candidate Starts for Cozz_27:

(3, 21868), (Start: 7 @21967 has 21 MA's), (13, 22048), (16, 22132), (17, 22186), (20, 22243), (21, 22252), (23, 22288), (34, 22486), (55, 22801), (57, 22834), (60, 22918),

Gene: Dre3_27 Start: 22219, Stop: 23184, Start Num: 6

Candidate Starts for Dre3_27:

(Start: 6 @22219 has 8 MA's), (14, 22366), (15, 22375), (16, 22384), (17, 22438), (20, 22495), (21, 22504), (44, 22915), (50, 23026), (53, 23041),

Gene: Elliott_27 Start: 21966, Stop: 22931, Start Num: 7

Candidate Starts for Elliott_27:

(3, 21867), (4, 21909), (Start: 7 @21966 has 21 MA's), (13, 22047), (16, 22131), (17, 22185), (20, 22242), (29, 22395), (33, 22443), (34, 22485), (57, 22833), (60, 22917),

Gene: Emalyn_26 Start: 21242, Stop: 22129, Start Num: 7

Candidate Starts for Emalyn_26:

(Start: 7 @21242 has 21 MA's), (8, 21251), (12, 21299), (13, 21323), (14, 21389), (16, 21407), (17, 21461), (19, 21515), (20, 21518), (25, 21614), (29, 21671), (34, 21761), (36, 21845), (49, 22019), (51, 22049),

Gene: Fribs8_28 Start: 22797, Stop: 23762, Start Num: 6

Candidate Starts for Fribs8_28:

(Start: 6 @22797 has 8 MA's), (12, 22854), (16, 22962), (23, 23118), (42, 23460), (46, 23511), (60, 23748),

Gene: GTE2_23 Start: 21320, Stop: 22207, Start Num: 7

Candidate Starts for GTE2_23:

(Start: 7 @21320 has 21 MA's), (8, 21329), (13, 21401), (14, 21467), (17, 21539), (20, 21596), (24, 21668), (26, 21704), (28, 21731), (29, 21749), (31, 21785), (34, 21839), (40, 21959), (49, 22097), (51, 22127),

Gene: Gibbous_27 Start: 22219, Stop: 23184, Start Num: 6

Candidate Starts for Gibbous_27:

(Start: 6 @22219 has 8 MA's), (14, 22366), (15, 22375), (16, 22384), (17, 22438), (20, 22495), (21, 22504), (44, 22915), (50, 23026), (53, 23041),

Gene: GoldHunter_28 Start: 21967, Stop: 22932, Start Num: 7

Candidate Starts for GoldHunter_28:

(3, 21868), (4, 21910), (Start: 7 @21967 has 21 MA's), (13, 22048), (16, 22132), (17, 22186), (20, 22243), (22, 22273), (29, 22396), (33, 22444), (46, 22681), (55, 22801), (56, 22813), (57, 22834), (60, 22918),

Gene: HippoPololi_29 Start: 22868, Stop: 23833, Start Num: 6

Candidate Starts for HippoPololi_29:

(Start: 6 @22868 has 8 MA's), (10, 22889), (15, 23024), (16, 23033), (17, 23087), (20, 23144), (21, 23153), (23, 23189), (35, 23429), (42, 23531), (44, 23564), (50, 23675), (54, 23693), (60, 23819),

Gene: Horseradish_28 Start: 21441, Stop: 22406, Start Num: 7

Candidate Starts for Horseradish_28:

(Start: 7 @21441 has 21 MA's), (13, 21522), (20, 21717), (26, 21825), (47, 22197), (50, 22248), (52, 22254), (53, 22263), (57, 22308), (60, 22392),

Gene: MScarn_29 Start: 21605, Stop: 22555, Start Num: 7

Candidate Starts for MScarn_29:

(Start: 7 @21605 has 21 MA's), (11, 21656), (17, 21824), (20, 21881), (26, 21989), (29, 22034), (49, 22382), (54, 22430), (55, 22439), (59, 22478), (60, 22541),

Gene: MaVan_29 Start: 22975, Stop: 23925, Start Num: 6

Candidate Starts for MaVan_29:

(1, 22513), (2, 22720), (5, 22939), (Start: 6 @22975 has 8 MA's), (12, 23032), (13, 23056), (16, 23140), (23, 23296), (29, 23404), (37, 23590), (53, 23797), (59, 23848), (60, 23911),

Gene: MunkgeeRoachy_28 Start: 22044, Stop: 23009, Start Num: 7

Candidate Starts for MunkgeeRoachy_28:

(3, 21945), (Start: 7 @22044 has 21 MA's), (13, 22125), (16, 22209), (17, 22263), (20, 22320), (29, 22473), (32, 22512), (33, 22521), (55, 22878), (56, 22890), (57, 22911), (60, 22995),

Gene: Nibbles_29 Start: 22974, Stop: 23924, Start Num: 6

Candidate Starts for Nibbles_29:

(2, 22719), (5, 22938), (Start: 6 @22974 has 8 MA's), (12, 23031), (13, 23055), (16, 23139), (23, 23295), (29, 23403), (37, 23589), (53, 23796), (59, 23847), (60, 23910),

Gene: Nina_28 Start: 23006, Stop: 23971, Start Num: 7

Candidate Starts for Nina_28:

(3, 22907), (4, 22949), (Start: 7 @23006 has 21 MA's), (13, 23087), (16, 23171), (17, 23225), (20, 23282), (29, 23435), (33, 23483), (34, 23525), (55, 23840), (57, 23873), (60, 23957),

Gene: PsychoKiller_27 Start: 21966, Stop: 22931, Start Num: 7

Candidate Starts for PsychoKiller_27:

(3, 21867), (4, 21909), (Start: 7 @21966 has 21 MA's), (13, 22047), (16, 22131), (17, 22185), (20, 22242), (29, 22395), (33, 22443), (34, 22485), (57, 22833), (60, 22917),

Gene: Quasar_27 Start: 22575, Stop: 23540, Start Num: 7

Candidate Starts for Quasar_27:

(Start: 7 @22575 has 21 MA's), (13, 22656), (16, 22740), (17, 22794), (20, 22851), (29, 23004), (33, 23052), (34, 23094), (55, 23409), (57, 23442), (60, 23526),

Gene: RedBaron_28 Start: 22229, Stop: 22975, Start Num: 17

Candidate Starts for RedBaron_28:

(3, 21911), (4, 21953), (Start: 7 @22010 has 21 MA's), (13, 22091), (16, 22175), (17, 22229), (20, 22286), (29, 22439), (33, 22487), (34, 22529), (55, 22844), (57, 22877), (60, 22961),

Gene: SketchMex_26 Start: 21620, Stop: 22570, Start Num: 7

Candidate Starts for SketchMex_26:

(Start: 7 @21620 has 21 MA's), (13, 21701), (17, 21839), (20, 21896), (26, 22004), (29, 22049), (55, 22454), (59, 22493), (60, 22556),

Gene: Sopespian_27 Start: 21967, Stop: 22932, Start Num: 7

Candidate Starts for Sopespian_27:

(3, 21868), (Start: 7 @21967 has 21 MA's), (13, 22048), (16, 22132), (17, 22186), (20, 22243), (29, 22396), (33, 22444), (34, 22486), (57, 22834), (60, 22918),

Gene: SteamedHams_29 Start: 21624, Stop: 22667, Start Num: 7

Candidate Starts for SteamedHams_29:

(Start: 7 @21624 has 21 MA's), (8, 21633), (13, 21705), (14, 21771), (17, 21843), (25, 21990), (27, 22017), (29, 22056), (30, 22062), (31, 22092), (38, 22317), (39, 22320), (41, 22335), (43, 22365), (45, 22395), (46, 22410), (48, 22467), (52, 22515), (53, 22524), (58, 22572), (61, 22656),

Gene: Survivors_29 Start: 22791, Stop: 23741, Start Num: 6

Candidate Starts for Survivors_29:

(2, 22536), (5, 22755), (Start: 6 @22791 has 8 MA's), (9, 22809), (12, 22848), (13, 22872), (16, 22956), (23, 23112), (29, 23220), (37, 23406), (53, 23613), (59, 23664), (60, 23727),

Gene: SweatNTears_29 Start: 21888, Stop: 22838, Start Num: 7

Candidate Starts for SweatNTears_29:

(Start: 7 @21888 has 21 MA's), (13, 21969), (17, 22107), (20, 22164), (26, 22272), (29, 22317), (34, 22407), (49, 22665), (55, 22722), (59, 22761), (60, 22824),

Gene: Troje_27 Start: 21602, Stop: 22567, Start Num: 7

Candidate Starts for Troje_27:

(Start: 7 @21602 has 21 MA's), (13, 21683), (20, 21878), (26, 21986), (47, 22358), (50, 22409), (52, 22415), (53, 22424), (57, 22469), (60, 22553),

Gene: Typhonomachy_28 Start: 21999, Stop: 22964, Start Num: 7

Candidate Starts for Typhonomachy_28:

(3, 21900), (Start: 7 @21999 has 21 MA's), (13, 22080), (16, 22164), (17, 22218), (18, 22233), (20, 22275), (29, 22428), (33, 22476), (34, 22518), (55, 22833), (57, 22866), (60, 22950),

Gene: Yarn_26 Start: 21641, Stop: 22528, Start Num: 7

Candidate Starts for Yarn_26:

(Start: 7 @21641 has 21 MA's), (8, 21650), (13, 21722), (14, 21788), (17, 21860), (20, 21917), (25, 22013), (26, 22025), (28, 22052), (29, 22070), (31, 22106), (34, 22160), (40, 22280), (49, 22418), (51, 22448),

Gene: Yummy_28 Start: 21555, Stop: 22520, Start Num: 7

Candidate Starts for Yummy_28:

(Start: 7 @21555 has 21 MA's), (13, 21636), (20, 21831), (26, 21939), (47, 22311), (50, 22362), (52, 22368), (53, 22377), (57, 22422), (60, 22506),

Gene: Zareef_31 Start: 22907, Stop: 23893, Start Num: 5

Candidate Starts for Zareef_31:

(2, 22688), (5, 22907), (Start: 6 @22943 has 8 MA's), (12, 23000), (13, 23024), (16, 23108), (23, 23264), (29, 23372), (37, 23558), (53, 23765), (59, 23816), (60, 23879),