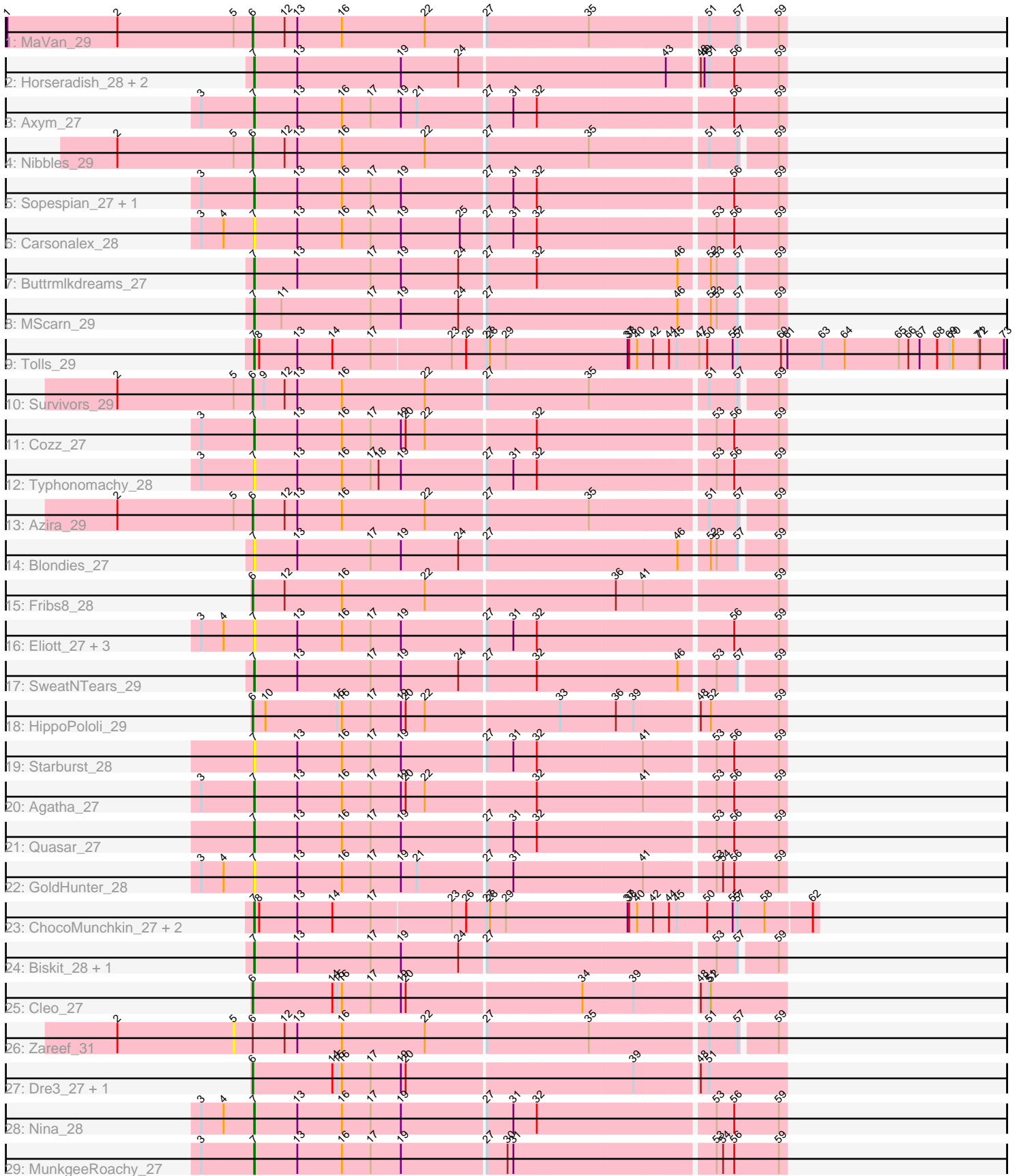


Pham 212785



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 212785 Report

This analysis was run 02/22/25 on database version 588.

Pham number 212785 has 39 members, 13 are drafts.

Phages represented in each track:

- Track 1 : MaVan_29
- Track 2 : Horseradish_28, Yummy_28, Troje_27
- Track 3 : Axym_27
- Track 4 : Nibbles_29
- Track 5 : Sopespian_27, Burnsey_27
- Track 6 : Carsonalex_28
- Track 7 : Buttrmlkdreams_27
- Track 8 : MScarn_29
- Track 9 : Tolls_29
- Track 10 : Survivors_29
- Track 11 : Cozz_27
- Track 12 : Typhonomachy_28
- Track 13 : Azira_29
- Track 14 : Blondies_27
- Track 15 : Fribs8_28
- Track 16 : Elliott_27, ChickenTender_30, Socotra_28, PsychoKiller_27
- Track 17 : SweatNTears_29
- Track 18 : HippoPololi_29
- Track 19 : Starburst_28
- Track 20 : Agatha_27
- Track 21 : Quasar_27
- Track 22 : GoldHunter_28
- Track 23 : ChocoMunchkin_27, CanesSauce_27, SteamedHams_29
- Track 24 : Biskit_28, SketchMex_26
- Track 25 : Cleo_27
- Track 26 : Zareef_31
- Track 27 : Dre3_27, Gibbous_27
- Track 28 : Nina_28
- Track 29 : MunkgeeRoachy_27

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 17 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Agatha_27, Axym_27, Biskit_28, Blondies_27, Burnsey_27, Buttrmlkdreams_27, CanesSauce_27, Carsonalex_28, ChickenTender_30, ChocoMunchkin_27, Cozz_27, Elliott_27, GoldHunter_28, Horseradish_28, MScarn_29, MunkgeeRoachy_27, Nina_28, PsychoKiller_27, Quasar_27, SketchMex_26, Socotra_28, Sopespian_27, Starburst_28, SteamedHams_29, SweatNTears_29, Tolls_29, Troje_27, Typhonomachy_28, Yummy_28,

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

-

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: 9 of 26
- 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: 17 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Agatha_27 (CT), Axym_27 (CT), Biskit_28 (CT), Blondies_27 (CT), Burnsey_27 (CT), Buttrmlkdreams_27 (CT), CanesSauce_27 (CT), Carsonalex_28 (CT), ChickenTender_30 (CT), ChocoMunchkin_27 (CT), Cozz_27 (CT), Elliott_27 (CT), GoldHunter_28 (CT), Horseradish_28 (CT), MScarn_29 (CT), MunkgeeRoachy_27 (CT), Nina_28 (CT), PsychoKiller_27 (CT), Quasar_27 (CT), SketchMex_26 (CT), Socotra_28 (CT), Sopespian_27 (CT), Starburst_28 (CT), SteamedHams_29 (CT), SweatNTears_29 (CT), Tolls_29 (CT), Troje_27 (CT), Typhonomachy_28 (CT), Yummy_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 9 times for cluster CT.
- Start number 7 was manually annotated 17 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 17 MA's), (13, 22044), (16, 22128), (17, 22182), (19, 22239), (20, 22248), (22, 22284), (32, 22482), (41, 22677), (53, 22797), (56, 22830), (59, 22914),

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

Candidate Starts for Axym_27:

(3, 21867), (Start: 7 @21966 has 17 MA's), (13, 22047), (16, 22131), (17, 22185), (19, 22242), (21, 22272), (27, 22395), (31, 22443), (32, 22485), (56, 22833), (59, 22917),

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

Candidate Starts for Azira_29:

(2, 22687), (5, 22906), (Start: 6 @22942 has 9 MA's), (12, 22999), (13, 23023), (16, 23107), (22, 23263), (27, 23371), (35, 23557), (51, 23764), (57, 23815), (59, 23878),

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

Candidate Starts for Biskit_28:

(Start: 7 @21620 has 17 MA's), (13, 21701), (17, 21839), (19, 21896), (24, 22004), (27, 22049), (53, 22454), (57, 22493), (59, 22556),

Gene: Blondies_27 Start: 21603, Stop: 22553, Start Num: 7

Candidate Starts for Blondies_27:

(Start: 7 @21603 has 17 MA's), (13, 21684), (17, 21822), (19, 21879), (24, 21987), (27, 22032), (46, 22380), (52, 22428), (53, 22437), (57, 22476), (59, 22539),

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

Candidate Starts for Burnsey_27:

(3, 21868), (Start: 7 @21967 has 17 MA's), (13, 22048), (16, 22132), (17, 22186), (19, 22234), (27, 22387), (31, 22435), (32, 22477), (56, 22825), (59, 22909),

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

Candidate Starts for Buttrmlkdreams_27:

(Start: 7 @21602 has 17 MA's), (13, 21683), (17, 21821), (19, 21878), (24, 21986), (27, 22031), (32, 22121), (46, 22379), (52, 22427), (53, 22436), (57, 22475), (59, 22538),

Gene: CanesSauce_27 Start: 21648, Stop: 22691, Start Num: 7

Candidate Starts for CanesSauce_27:

(Start: 7 @21648 has 17 MA's), (8, 21657), (13, 21729), (14, 21795), (17, 21867), (23, 22014), (26, 22041), (27, 22080), (28, 22086), (29, 22116), (37, 22341), (38, 22344), (40, 22359), (42, 22389), (44, 22419), (45, 22434), (50, 22491), (55, 22539), (57, 22548), (58, 22596), (62, 22680),

Gene: Carsonalex_28 Start: 22024, Stop: 22989, Start Num: 7

Candidate Starts for Carsonalex_28:

(3, 21925), (4, 21967), (Start: 7 @22024 has 17 MA's), (13, 22105), (16, 22189), (17, 22243), (19, 22300), (25, 22411), (27, 22453), (31, 22501), (32, 22543), (53, 22858), (56, 22891), (59, 22975),

Gene: ChickenTender_30 Start: 22240, Stop: 23205, Start Num: 7

Candidate Starts for ChickenTender_30:

(3, 22141), (4, 22183), (Start: 7 @22240 has 17 MA's), (13, 22321), (16, 22405), (17, 22459), (19, 22516), (27, 22669), (31, 22717), (32, 22759), (56, 23107), (59, 23191),

Gene: ChocoMunchkin_27 Start: 21648, Stop: 22691, Start Num: 7

Candidate Starts for ChocoMunchkin_27:

(Start: 7 @21648 has 17 MA's), (8, 21657), (13, 21729), (14, 21795), (17, 21867), (23, 22014), (26, 22041), (27, 22080), (28, 22086), (29, 22116), (37, 22341), (38, 22344), (40, 22359), (42, 22389), (44, 22419), (45, 22434), (50, 22491), (55, 22539), (57, 22548), (58, 22596), (62, 22680),

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

Candidate Starts for Cleo_27:

(Start: 6 @22293 has 9 MA's), (14, 22440), (15, 22449), (16, 22458), (17, 22512), (19, 22569), (20, 22578), (34, 22896), (39, 22989), (48, 23100), (51, 23115), (52, 23118),

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

Candidate Starts for Cozz_27:

(3, 21868), (Start: 7 @21967 has 17 MA's), (13, 22048), (16, 22132), (17, 22186), (19, 22243), (20, 22252), (22, 22288), (32, 22486), (53, 22801), (56, 22834), (59, 22918),

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

Candidate Starts for Dre3_27:

(Start: 6 @22219 has 9 MA's), (14, 22366), (15, 22375), (16, 22384), (17, 22438), (19, 22495), (20, 22504), (39, 22915), (48, 23026), (51, 23041),

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

Candidate Starts for Elliott_27:

(3, 21867), (4, 21909), (Start: 7 @21966 has 17 MA's), (13, 22047), (16, 22131), (17, 22185), (19, 22242), (27, 22395), (31, 22443), (32, 22485), (56, 22833), (59, 22917),

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

Candidate Starts for Fribs8_28:

(Start: 6 @22797 has 9 MA's), (12, 22854), (16, 22962), (22, 23118), (36, 23460), (41, 23511), (59, 23748),

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

Candidate Starts for Gibbous_27:

(Start: 6 @22219 has 9 MA's), (14, 22366), (15, 22375), (16, 22384), (17, 22438), (19, 22495), (20, 22504), (39, 22915), (48, 23026), (51, 23041),

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

Candidate Starts for GoldHunter_28:

(3, 21868), (4, 21910), (Start: 7 @21967 has 17 MA's), (13, 22048), (16, 22132), (17, 22186), (19, 22243), (21, 22273), (27, 22396), (31, 22444), (41, 22681), (53, 22801), (54, 22813), (56, 22834), (59, 22918),

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

Candidate Starts for HippoPololi_29:

(Start: 6 @22868 has 9 MA's), (10, 22889), (15, 23024), (16, 23033), (17, 23087), (19, 23144), (20, 23153), (22, 23189), (33, 23429), (36, 23531), (39, 23564), (48, 23675), (52, 23693), (59, 23819),

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

Candidate Starts for Horseradish_28:

(Start: 7 @21441 has 17 MA's), (13, 21522), (19, 21717), (24, 21825), (43, 22197), (48, 22248), (49, 22254), (51, 22263), (56, 22308), (59, 22392),

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

Candidate Starts for MScarn_29:

(Start: 7 @21605 has 17 MA's), (11, 21656), (17, 21824), (19, 21881), (24, 21989), (27, 22034), (46, 22382), (52, 22430), (53, 22439), (57, 22478), (59, 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 9 MA's), (12, 23032), (13, 23056), (16, 23140), (22, 23296), (27, 23404), (35, 23590), (51, 23797), (57, 23848), (59, 23911),

Gene: MunkgeeRoachy_27 Start: 22044, Stop: 23009, Start Num: 7

Candidate Starts for MunkgeeRoachy_27:

(3, 21945), (Start: 7 @22044 has 17 MA's), (13, 22125), (16, 22209), (17, 22263), (19, 22320), (27, 22473), (30, 22512), (31, 22521), (53, 22878), (54, 22890), (56, 22911), (59, 22995),

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

Candidate Starts for Nibbles_29:

(2, 22719), (5, 22938), (Start: 6 @22974 has 9 MA's), (12, 23031), (13, 23055), (16, 23139), (22, 23295), (27, 23403), (35, 23589), (51, 23796), (57, 23847), (59, 23910),

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

Candidate Starts for Nina_28:

(3, 22907), (4, 22949), (Start: 7 @23006 has 17 MA's), (13, 23087), (16, 23171), (17, 23225), (19, 23282), (27, 23435), (31, 23483), (32, 23525), (53, 23840), (56, 23873), (59, 23957),

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

Candidate Starts for PsychoKiller_27:

(3, 21867), (4, 21909), (Start: 7 @21966 has 17 MA's), (13, 22047), (16, 22131), (17, 22185), (19, 22242), (27, 22395), (31, 22443), (32, 22485), (56, 22833), (59, 22917),

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

Candidate Starts for Quasar_27:

(Start: 7 @22575 has 17 MA's), (13, 22656), (16, 22740), (17, 22794), (19, 22851), (27, 23004), (31, 23052), (32, 23094), (53, 23409), (56, 23442), (59, 23526),

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

Candidate Starts for SketchMex_26:

(Start: 7 @21620 has 17 MA's), (13, 21701), (17, 21839), (19, 21896), (24, 22004), (27, 22049), (53, 22454), (57, 22493), (59, 22556),

Gene: Socotra_28 Start: 21966, Stop: 22931, Start Num: 7

Candidate Starts for Socotra_28:

(3, 21867), (4, 21909), (Start: 7 @21966 has 17 MA's), (13, 22047), (16, 22131), (17, 22185), (19, 22242), (27, 22395), (31, 22443), (32, 22485), (56, 22833), (59, 22917),

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

Candidate Starts for Sopespian_27:

(3, 21868), (Start: 7 @21967 has 17 MA's), (13, 22048), (16, 22132), (17, 22186), (19, 22243), (27, 22396), (31, 22444), (32, 22486), (56, 22834), (59, 22918),

Gene: Starburst_28 Start: 21967, Stop: 22932, Start Num: 7

Candidate Starts for Starburst_28:

(Start: 7 @21967 has 17 MA's), (13, 22048), (16, 22132), (17, 22186), (19, 22243), (27, 22396), (31, 22444), (32, 22486), (41, 22681), (53, 22801), (56, 22834), (59, 22918),

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

Candidate Starts for SteamedHams_29:

(Start: 7 @21624 has 17 MA's), (8, 21633), (13, 21705), (14, 21771), (17, 21843), (23, 21990), (26, 22017), (27, 22056), (28, 22062), (29, 22092), (37, 22317), (38, 22320), (40, 22335), (42, 22365), (44, 22395), (45, 22410), (50, 22467), (55, 22515), (57, 22524), (58, 22572), (62, 22656),

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

Candidate Starts for Survivors_29:

(2, 22536), (5, 22755), (Start: 6 @22791 has 9 MA's), (9, 22809), (12, 22848), (13, 22872), (16, 22956), (22, 23112), (27, 23220), (35, 23406), (51, 23613), (57, 23664), (59, 23727),

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

Candidate Starts for SweatNTears_29:

(Start: 7 @21888 has 17 MA's), (13, 21969), (17, 22107), (19, 22164), (24, 22272), (27, 22317), (32, 22407), (46, 22665), (53, 22722), (57, 22761), (59, 22824),

Gene: Tolls_29 Start: 21618, Stop: 23021, Start Num: 7

Candidate Starts for Tolls_29:

(Start: 7 @21618 has 17 MA's), (8, 21627), (13, 21699), (14, 21765), (17, 21837), (23, 21984), (26, 22011), (27, 22050), (28, 22056), (29, 22086), (37, 22311), (38, 22314), (40, 22329), (42, 22359), (44, 22389), (45, 22404), (47, 22446), (50, 22461), (55, 22509), (57, 22518), (60, 22596), (61, 22608), (63, 22674), (64, 22716), (65, 22818), (66, 22836), (67, 22857), (68, 22890), (69, 22914), (70, 22920), (71, 22968), (72, 22971), (73, 23016),

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

Candidate Starts for Troje_27:

(Start: 7 @21602 has 17 MA's), (13, 21683), (19, 21878), (24, 21986), (43, 22358), (48, 22409), (49, 22415), (51, 22424), (56, 22469), (59, 22553),

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

Candidate Starts for Typhonomachy_28:

(3, 21900), (Start: 7 @21999 has 17 MA's), (13, 22080), (16, 22164), (17, 22218), (18, 22233), (19, 22275), (27, 22428), (31, 22476), (32, 22518), (53, 22833), (56, 22866), (59, 22950),

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

Candidate Starts for Yummy_28:

(Start: 7 @21555 has 17 MA's), (13, 21636), (19, 21831), (24, 21939), (43, 22311), (48, 22362), (49, 22368), (51, 22377), (56, 22422), (59, 22506),

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

Candidate Starts for Zareef_31:

(2, 22688), (5, 22907), (Start: 6 @22943 has 9 MA's), (12, 23000), (13, 23024), (16, 23108), (22, 23264), (27, 23372), (35, 23558), (51, 23765), (57, 23816), (59, 23879),