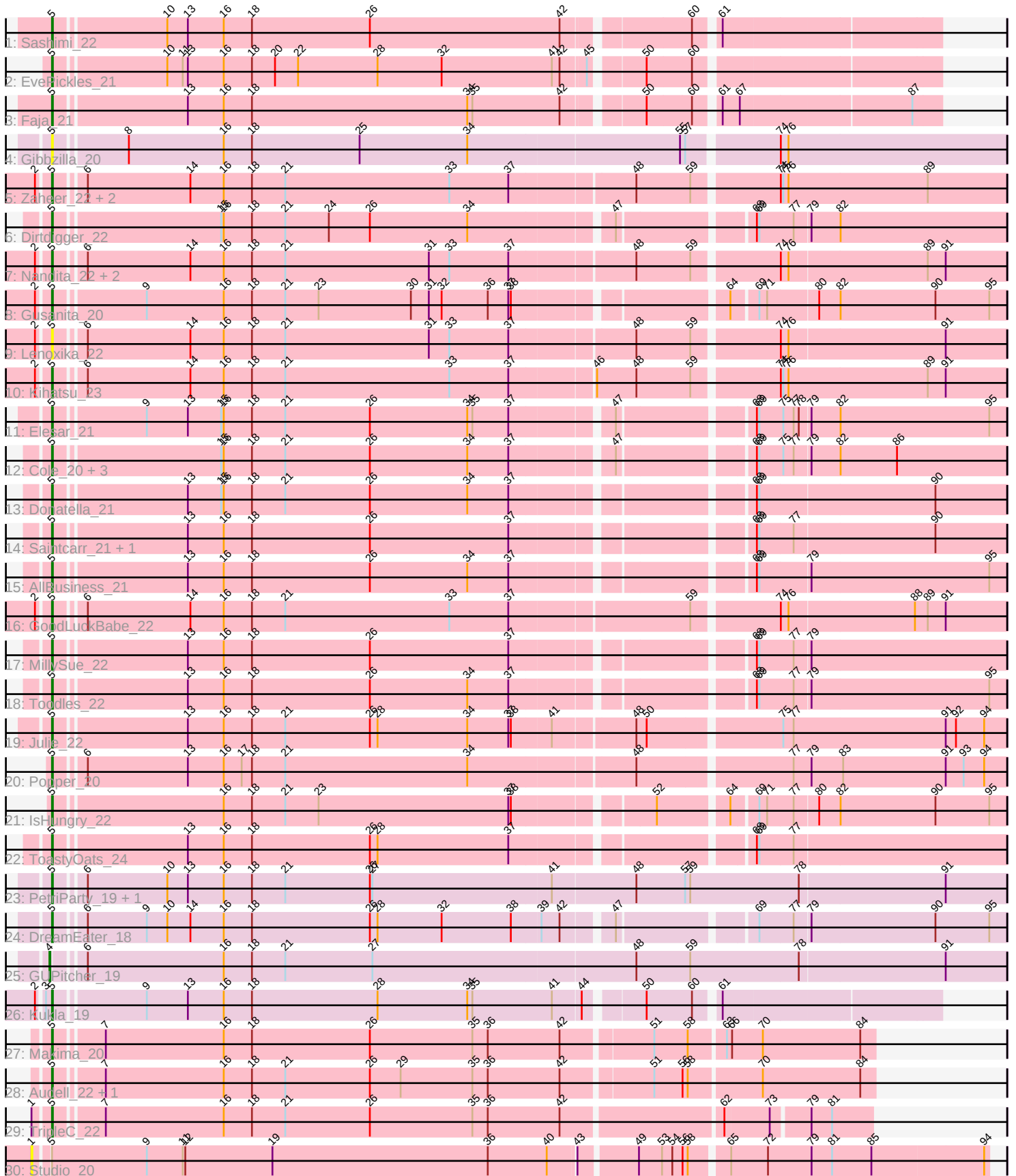


Pham 331024



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 331024 Report

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

Pham number 331024 has 40 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Sashimi_22
- Track 2 : EvePickles_21
- Track 3 : Faja_21
- Track 4 : Gibbzilla_20
- Track 5 : Zaheer_22, Ryan_22, Yonex_22
- Track 6 : Dirt digger_22
- Track 7 : Nandita_22, Guinevere_22, Schism_22
- Track 8 : Gusanita_20
- Track 9 : Lenoxika_22
- Track 10 : Kihatsu_23
- Track 11 : Elesar_21
- Track 12 : Cole_20, Halloween_20, QuinnAvery_22, BigSherm_22
- Track 13 : Donatella_21
- Track 14 : Saintcarr_21, Ichiang_20
- Track 15 : AllBusiness_21
- Track 16 : GoodLuckBabe_22
- Track 17 : MillySue_22
- Track 18 : Toodles_22
- Track 19 : Julie_22
- Track 20 : Popper_20
- Track 21 : IsHungry_22
- Track 22 : ToastyOats_24
- Track 23 : PetriParty_19, TripleJ_20
- Track 24 : DreamEater_18
- Track 25 : GUPitcher_19
- Track 26 : Kukla_19
- Track 27 : Makima_20
- Track 28 : Audell_22, LastNadiia_22
- Track 29 : TripleC_22
- Track 30 : Studio_20

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

The start number called the most often in the published annotations is 5, it was called in 33 of the 34 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AllBusiness_21, Audell_22, BigSherm_22, Cole_20, Dirdigger_22, Donatella_21, DreamEater_18, Elesar_21, EvePickles_21, Faja_21, Gibbzilla_20, GoodLuckBabe_22, Guinevere_22, Gusanita_20, Halloweekend_20, Ichiang_20, IsHungry_22, Julie_22, Kihatsu_23, Kukla_19, LastNadiia_22, Lenoxika_22, Makima_20, MillySue_22, Nandita_22, PetriParty_19, Popper_20, QuinnAvery_22, Ryan_22, Saintcarr_21, Sashimi_22, Schism_22, ToastyOats_24, Toodles_22, TripleC_22, TripleJ_20, Yonex_22, Zaheer_22,

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

- Studio_20,

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

- GUPitcher_19,

Summary by start number:

Start 1:

- Found in 2 of 40 (5.0%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Studio_20 (FR),

Start 4:

- Found in 1 of 40 (2.5%) of genes in pham
- Manual Annotations of this start: 1 of 34
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GUPitcher_19 (FJ),

Start 5:

- Found in 39 of 40 (97.5%) of genes in pham
- Manual Annotations of this start: 33 of 34
- Called 97.4% of time when present
- Phage (with cluster) where this start called: AllBusiness_21 (FF), Audell_22 (FR), BigSherm_22 (FF), Cole_20 (FF), Dirdigger_22 (FF), Donatella_21 (FF), DreamEater_18 (FJ), Elesar_21 (FF), EvePickles_21 (AY), Faja_21 (AY), Gibbzilla_20 (FB), GoodLuckBabe_22 (FF), Guinevere_22 (FF), Gusanita_20 (FF), Halloweekend_20 (FF), Ichiang_20 (FF), IsHungry_22 (FF), Julie_22 (FF), Kihatsu_23 (FF), Kukla_19 (FJ), LastNadiia_22 (FR), Lenoxika_22 (FF), Makima_20 (FR), MillySue_22 (FF), Nandita_22 (FF), PetriParty_19 (FJ), Popper_20 (FF), QuinnAvery_22 (FF), Ryan_22 (FF), Saintcarr_21 (FF), Sashimi_22 (AY), Schism_22 (FF), ToastyOats_24 (FF), Toodles_22 (FF), TripleC_22 (FR), TripleJ_20 (FJ), Yonex_22 (FF), Zaheer_22 (FF),

Summary by clusters:

There are 5 clusters represented in this pham: AY, FB, FJ, FR, FF,

Info for manual annotations of cluster AY:

- Start number 5 was manually annotated 3 times for cluster AY.

Info for manual annotations of cluster FF:

- Start number 5 was manually annotated 23 times for cluster FF.

Info for manual annotations of cluster FJ:

- Start number 4 was manually annotated 1 time for cluster FJ.
- Start number 5 was manually annotated 3 times for cluster FJ.

Info for manual annotations of cluster FR:

- Start number 5 was manually annotated 4 times for cluster FR.

Gene Information:

Gene: AllBusiness_21 Start: 16818, Stop: 17876, Start Num: 5

Candidate Starts for AllBusiness_21:

(Start: 5 @16818 has 33 MA's), (13, 16965), (16, 17007), (18, 17040), (26, 17178), (34, 17292), (37, 17340), (68, 17589), (69, 17592), (79, 17649), (95, 17856),

Gene: Audell_22 Start: 16138, Stop: 17070, Start Num: 5

Candidate Starts for Audell_22:

(Start: 5 @16138 has 33 MA's), (7, 16189), (16, 16327), (18, 16360), (21, 16399), (26, 16498), (29, 16534), (35, 16618), (36, 16636), (42, 16720), (51, 16819), (56, 16852), (58, 16858), (70, 16939), (84, 17053),

Gene: BigSherm_22 Start: 16746, Stop: 17804, Start Num: 5

Candidate Starts for BigSherm_22:

(Start: 5 @16746 has 33 MA's), (15, 16932), (16, 16935), (18, 16968), (21, 17007), (26, 17106), (34, 17220), (37, 17268), (47, 17376), (68, 17517), (69, 17520), (75, 17547), (77, 17559), (79, 17577), (82, 17610), (86, 17676),

Gene: Cole_20 Start: 16408, Stop: 17466, Start Num: 5

Candidate Starts for Cole_20:

(Start: 5 @16408 has 33 MA's), (15, 16594), (16, 16597), (18, 16630), (21, 16669), (26, 16768), (34, 16882), (37, 16930), (47, 17038), (68, 17179), (69, 17182), (75, 17209), (77, 17221), (79, 17239), (82, 17272), (86, 17338),

Gene: Dirtdigger_22 Start: 16726, Stop: 17784, Start Num: 5

Candidate Starts for Dirtdigger_22:

(Start: 5 @16726 has 33 MA's), (15, 16912), (16, 16915), (18, 16948), (21, 16987), (24, 17038), (26, 17086), (34, 17200), (47, 17356), (68, 17497), (69, 17500), (77, 17539), (79, 17557), (82, 17590),

Gene: Donatella_21 Start: 16872, Stop: 17930, Start Num: 5

Candidate Starts for Donatella_21:

(Start: 5 @16872 has 33 MA's), (13, 17019), (15, 17058), (16, 17061), (18, 17094), (21, 17133), (26, 17232), (34, 17346), (37, 17394), (68, 17643), (69, 17646), (90, 17847),

Gene: DreamEater_18 Start: 16382, Stop: 17440, Start Num: 5

Candidate Starts for DreamEater_18:

(Start: 5 @16382 has 33 MA's), (6, 16412), (9, 16481), (10, 16505), (14, 16532), (16, 16571), (18, 16604), (26, 16742), (28, 16751), (32, 16826), (38, 16907), (39, 16940), (42, 16961), (47, 17012), (69,

17156), (77, 17195), (79, 17213), (90, 17357), (95, 17420),

Gene: Elesar_21 Start: 16799, Stop: 17857, Start Num: 5

Candidate Starts for Elesar_21:

(Start: 5 @16799 has 33 MA's), (9, 16898), (13, 16946), (15, 16985), (16, 16988), (18, 17021), (21, 17060), (26, 17159), (34, 17273), (35, 17279), (37, 17321), (47, 17429), (68, 17570), (69, 17573), (75, 17600), (77, 17612), (78, 17618), (79, 17630), (82, 17663), (95, 17837),

Gene: EvePickles_21 Start: 16081, Stop: 17058, Start Num: 5

Candidate Starts for EvePickles_21:

(Start: 5 @16081 has 33 MA's), (10, 16204), (11, 16222), (13, 16228), (16, 16270), (18, 16303), (20, 16330), (22, 16357), (28, 16450), (32, 16525), (41, 16654), (42, 16663), (45, 16690), (50, 16744), (60, 16795),

Gene: Faja_21 Start: 15977, Stop: 16954, Start Num: 5

Candidate Starts for Faja_21:

(Start: 5 @15977 has 33 MA's), (13, 16124), (16, 16166), (18, 16199), (34, 16451), (35, 16457), (42, 16559), (50, 16640), (60, 16691), (61, 16712), (67, 16730), (87, 16922),

Gene: GUPitcher_19 Start: 15725, Stop: 16819, Start Num: 4

Candidate Starts for GUPitcher_19:

(Start: 4 @15725 has 1 MA's), (6, 15755), (16, 15914), (18, 15947), (21, 15986), (27, 16088), (48, 16391), (59, 16454), (78, 16580), (91, 16748),

Gene: Gibbzilla_20 Start: 13767, Stop: 14849, Start Num: 5

Candidate Starts for Gibbzilla_20:

(Start: 5 @13767 has 33 MA's), (8, 13845), (16, 13956), (18, 13989), (25, 14115), (34, 14241), (55, 14484), (57, 14490), (74, 14586), (76, 14595),

Gene: GoodLuckBabe_22 Start: 16701, Stop: 17774, Start Num: 5

Candidate Starts for GoodLuckBabe_22:

(2, 16689), (Start: 5 @16701 has 33 MA's), (6, 16731), (14, 16851), (16, 16890), (18, 16923), (21, 16962), (33, 17154), (37, 17223), (59, 17424), (74, 17514), (76, 17523), (88, 17667), (89, 17682), (91, 17703),

Gene: Guinevere_22 Start: 16732, Stop: 17805, Start Num: 5

Candidate Starts for Guinevere_22:

(2, 16720), (Start: 5 @16732 has 33 MA's), (6, 16762), (14, 16882), (16, 16921), (18, 16954), (21, 16993), (31, 17161), (33, 17185), (37, 17254), (48, 17392), (59, 17455), (74, 17545), (76, 17554), (89, 17713), (91, 17734),

Gene: Gusanita_20 Start: 16621, Stop: 17679, Start Num: 5

Candidate Starts for Gusanita_20:

(2, 16609), (Start: 5 @16621 has 33 MA's), (9, 16720), (16, 16810), (18, 16843), (21, 16882), (23, 16921), (30, 17029), (31, 17050), (32, 17065), (36, 17119), (37, 17143), (38, 17146), (64, 17368), (69, 17395), (71, 17404), (80, 17461), (82, 17485), (90, 17596), (95, 17659),

Gene: Halloweekend_20 Start: 16372, Stop: 17430, Start Num: 5

Candidate Starts for Halloweekend_20:

(Start: 5 @16372 has 33 MA's), (15, 16558), (16, 16561), (18, 16594), (21, 16633), (26, 16732), (34, 16846), (37, 16894), (47, 17002), (68, 17143), (69, 17146), (75, 17173), (77, 17185), (79, 17203), (82, 17236), (86, 17302),

Gene: Ichiang_20 Start: 16389, Stop: 17447, Start Num: 5

Candidate Starts for Ichiang_20:

(Start: 5 @16389 has 33 MA's), (13, 16536), (16, 16578), (18, 16611), (26, 16749), (37, 16911), (68, 17160), (69, 17163), (77, 17202), (90, 17364),

Gene: IsHungry_22 Start: 16699, Stop: 17757, Start Num: 5

Candidate Starts for IsHungry_22:

(Start: 5 @16699 has 33 MA's), (16, 16888), (18, 16921), (21, 16960), (23, 16999), (37, 17221), (38, 17224), (52, 17371), (64, 17446), (69, 17473), (71, 17482), (77, 17512), (80, 17539), (82, 17563), (90, 17674), (95, 17737),

Gene: Julie_22 Start: 16962, Stop: 18038, Start Num: 5

Candidate Starts for Julie_22:

(Start: 5 @16962 has 33 MA's), (13, 17109), (16, 17151), (18, 17184), (21, 17223), (26, 17322), (28, 17331), (34, 17436), (37, 17484), (38, 17487), (41, 17532), (48, 17622), (50, 17634), (75, 17778), (77, 17790), (91, 17967), (92, 17979), (94, 18012),

Gene: Kihatsu_23 Start: 17054, Stop: 18130, Start Num: 5

Candidate Starts for Kihatsu_23:

(2, 17042), (Start: 5 @17054 has 33 MA's), (6, 17084), (14, 17204), (16, 17243), (18, 17276), (21, 17315), (33, 17507), (37, 17576), (46, 17669), (48, 17714), (59, 17777), (74, 17867), (75, 17870), (76, 17876), (89, 18038), (91, 18059),

Gene: Kukla_19 Start: 15456, Stop: 16433, Start Num: 5

Candidate Starts for Kukla_19:

(2, 15444), (3, 15450), (Start: 5 @15456 has 33 MA's), (9, 15555), (13, 15603), (16, 15645), (18, 15678), (28, 15825), (34, 15930), (35, 15936), (41, 16029), (44, 16059), (50, 16119), (60, 16170), (61, 16191),

Gene: LastNadiia_22 Start: 15090, Stop: 16022, Start Num: 5

Candidate Starts for LastNadiia_22:

(Start: 5 @15090 has 33 MA's), (7, 15141), (16, 15279), (18, 15312), (21, 15351), (26, 15450), (29, 15486), (35, 15570), (36, 15588), (42, 15672), (51, 15771), (56, 15804), (58, 15810), (70, 15891), (84, 16005),

Gene: Lenoxika_22 Start: 16728, Stop: 17801, Start Num: 5

Candidate Starts for Lenoxika_22:

(2, 16716), (Start: 5 @16728 has 33 MA's), (6, 16758), (14, 16878), (16, 16917), (18, 16950), (21, 16989), (31, 17157), (33, 17181), (37, 17250), (48, 17388), (59, 17451), (74, 17541), (76, 17550), (91, 17730),

Gene: Makima_20 Start: 14173, Stop: 15105, Start Num: 5

Candidate Starts for Makima_20:

(Start: 5 @14173 has 33 MA's), (7, 14224), (16, 14362), (18, 14395), (26, 14533), (35, 14653), (36, 14671), (42, 14755), (51, 14854), (58, 14893), (63, 14932), (66, 14938), (70, 14974), (84, 15088),

Gene: MillySue_22 Start: 16748, Stop: 17806, Start Num: 5

Candidate Starts for MillySue_22:

(Start: 5 @16748 has 33 MA's), (13, 16895), (16, 16937), (18, 16970), (26, 17108), (37, 17270), (68, 17519), (69, 17522), (77, 17561), (79, 17579),

Gene: Nandita_22 Start: 16732, Stop: 17805, Start Num: 5

Candidate Starts for Nandita_22:

(2, 16720), (Start: 5 @16732 has 33 MA's), (6, 16762), (14, 16882), (16, 16921), (18, 16954), (21, 16993), (31, 17161), (33, 17185), (37, 17254), (48, 17392), (59, 17455), (74, 17545), (76, 17554), (89, 17713), (91, 17734),

Gene: PetriParty_19 Start: 16361, Stop: 17455, Start Num: 5

Candidate Starts for PetriParty_19:

(Start: 5 @16361 has 33 MA's), (6, 16391), (10, 16484), (13, 16508), (16, 16550), (18, 16583), (21, 16622), (26, 16721), (27, 16724), (41, 16931), (48, 17027), (57, 17084), (59, 17090), (78, 17216), (91, 17384),

Gene: Popper_20 Start: 16260, Stop: 17336, Start Num: 5

Candidate Starts for Popper_20:

(Start: 5 @16260 has 33 MA's), (6, 16290), (13, 16407), (16, 16449), (17, 16470), (18, 16482), (21, 16521), (34, 16734), (48, 16920), (77, 17088), (79, 17109), (83, 17145), (91, 17265), (93, 17286), (94, 17310),

Gene: QuinnAvery_22 Start: 16746, Stop: 17804, Start Num: 5

Candidate Starts for QuinnAvery_22:

(Start: 5 @16746 has 33 MA's), (15, 16932), (16, 16935), (18, 16968), (21, 17007), (26, 17106), (34, 17220), (37, 17268), (47, 17376), (68, 17517), (69, 17520), (75, 17547), (77, 17559), (79, 17577), (82, 17610), (86, 17676),

Gene: Ryan_22 Start: 16878, Stop: 17954, Start Num: 5

Candidate Starts for Ryan_22:

(2, 16866), (Start: 5 @16878 has 33 MA's), (6, 16908), (14, 17028), (16, 17067), (18, 17100), (21, 17139), (33, 17331), (37, 17400), (48, 17538), (59, 17601), (74, 17691), (75, 17694), (76, 17700), (89, 17862),

Gene: Saintcarr_21 Start: 16756, Stop: 17814, Start Num: 5

Candidate Starts for Saintcarr_21:

(Start: 5 @16756 has 33 MA's), (13, 16903), (16, 16945), (18, 16978), (26, 17116), (37, 17278), (68, 17527), (69, 17530), (77, 17569), (90, 17731),

Gene: Sashimi_22 Start: 16083, Stop: 17060, Start Num: 5

Candidate Starts for Sashimi_22:

(Start: 5 @16083 has 33 MA's), (10, 16206), (13, 16230), (16, 16272), (18, 16305), (26, 16443), (42, 16665), (60, 16797), (61, 16818),

Gene: Schism_22 Start: 16732, Stop: 17805, Start Num: 5

Candidate Starts for Schism_22:

(2, 16720), (Start: 5 @16732 has 33 MA's), (6, 16762), (14, 16882), (16, 16921), (18, 16954), (21, 16993), (31, 17161), (33, 17185), (37, 17254), (48, 17392), (59, 17455), (74, 17545), (76, 17554), (89, 17713), (91, 17734),

Gene: Studio_20 Start: 12565, Stop: 13644, Start Num: 1

Candidate Starts for Studio_20:

(1, 12565), (Start: 5 @12580 has 33 MA's), (9, 12691), (11, 12733), (12, 12736), (19, 12838), (36, 13090), (40, 13159), (43, 13189), (49, 13252), (53, 13279), (54, 13291), (56, 13303), (58, 13309), (65, 13348), (72, 13390), (79, 13441), (81, 13465), (85, 13510), (94, 13639),

Gene: ToastyOats_24 Start: 17211, Stop: 18269, Start Num: 5

Candidate Starts for ToastyOats_24:

(Start: 5 @17211 has 33 MA's), (13, 17358), (16, 17400), (18, 17433), (26, 17571), (28, 17580), (37, 17733), (68, 17982), (69, 17985), (77, 18024),

Gene: Toodles_22 Start: 16957, Stop: 18015, Start Num: 5

Candidate Starts for Toodles_22:

(Start: 5 @16957 has 33 MA's), (13, 17104), (16, 17146), (18, 17179), (26, 17317), (34, 17431), (37, 17479), (68, 17728), (69, 17731), (77, 17770), (79, 17788), (95, 17995),

Gene: TripleC_22 Start: 16173, Stop: 17096, Start Num: 5

Candidate Starts for TripleC_22:

(1, 16158), (Start: 5 @16173 has 33 MA's), (7, 16224), (16, 16362), (18, 16395), (21, 16434), (26, 16533), (35, 16653), (36, 16671), (42, 16755), (62, 16932), (73, 16983), (79, 17025), (81, 17049),

Gene: TripleJ_20 Start: 16378, Stop: 17472, Start Num: 5

Candidate Starts for TripleJ_20:

(Start: 5 @16378 has 33 MA's), (6, 16408), (10, 16501), (13, 16525), (16, 16567), (18, 16600), (21, 16639), (26, 16738), (27, 16741), (41, 16948), (48, 17044), (57, 17101), (59, 17107), (78, 17233), (91, 17401),

Gene: Yonex_22 Start: 16878, Stop: 17954, Start Num: 5

Candidate Starts for Yonex_22:

(2, 16866), (Start: 5 @16878 has 33 MA's), (6, 16908), (14, 17028), (16, 17067), (18, 17100), (21, 17139), (33, 17331), (37, 17400), (48, 17538), (59, 17601), (74, 17691), (75, 17694), (76, 17700), (89, 17862),

Gene: Zaheer_22 Start: 16967, Stop: 18043, Start Num: 5

Candidate Starts for Zaheer_22:

(2, 16955), (Start: 5 @16967 has 33 MA's), (6, 16997), (14, 17117), (16, 17156), (18, 17189), (21, 17228), (33, 17420), (37, 17489), (48, 17627), (59, 17690), (74, 17780), (75, 17783), (76, 17789), (89, 17951),