

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 203086 Report

This analysis was run 01/18/25 on database version 583.

Pham number 203086 has 43 members, 12 are drafts.

Phages represented in each track:

- Track 1 : MyraDee_33
- Track 2 : Maco6_43
- Track 3 : FF47_44A, Muddy_45
- Track 4 : NoShow_53
- Track 5 : 8UZL_45
- Track 6 : Carsonalex_47, Axym_43, Typhonomachy_44, Burnsey_44, RedBaron_46, Nina_43
- Track 7 : Amok_45
- Track 8 : Yummy_46, Troje_46, Horseradish_46, Blondies_46, SketchMex_44, Biskit_46
- Track 9 : PotPie_45
- Track 10 : Sopespian_42, Elliott_44, PsychoKiller_43, Starburst_44
- Track 11 : Buttrmlkdreams_46
- Track 12 : GoldHunter_45
- Track 13 : MunkgeeRoachy_42
- Track 14 : MScarn_48
- Track 15 : AndPeggy_41, SteamedHams_44, Yarn_41
- Track 16 : Emalyn_43
- Track 17 : Tolls_45
- Track 18 : Vine_48
- Track 19 : BillDoor_44
- Track 20 : Quasar_44
- Track 21 : AikoCarson_45
- Track 22 : Agatha_44, Cozz_42
- Track 23 : GTE2_36
- Track 24 : SweatNTears_45
- Track 25 : Huwbert_70
- Track 26 : Triscuit_69

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

The start number called the most often in the published annotations is 15, it was called in 19 of the 31 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 8UZL_45, Agatha_44, AikoCarson_45, Amok_45, AndPeggy_41, Axym_43, BillDoor_44, Burnsey_44, Carsonalex_47, Cozz_42, Elliott_44, Emalyn_43, FF47_44A, GTE2_36, GoldHunter_45, Maco6_43, Muddy_45, MunkgeeRoachy_42, Nina_43, NoShow_53, PsychoKiller_43, Quasar_44, RedBaron_46, Sopespian_42, Starburst_44, SteamedHams_44, SweatNTears_45, Tolls_45, Typhonmacy_44, Yarn_41,

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

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

- Biskit_46, Blondies_46, Buttrmlkdreams_46, Horseradish_46, Huwburt_70, MScarn_48, MyraDee_33, PotPie_45, SketchMex_44, Triscuit_69, Troje_46, Vine_48, Yummy_46,

Summary by start number:

Start 9:

- Found in 2 of 43 (4.7%) of genes in pham
- Manual Annotations of this start: 2 of 31
- Called 100.0% of time when present
- Phage (with cluster) where this start called: PotPie_45 (CT), Vine_48 (CT),

Start 14:

- Found in 8 of 43 (18.6%) of genes in pham
- Manual Annotations of this start: 7 of 31
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Biskit_46 (CT), Blondies_46 (CT), Buttrmlkdreams_46 (CT), Horseradish_46 (CT), MScarn_48 (CT), SketchMex_44 (CT), Troje_46 (CT), Yummy_46 (CT),

Start 15:

- Found in 30 of 43 (69.8%) of genes in pham
- Manual Annotations of this start: 19 of 31
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 8UZL_45 (AB), Agatha_44 (CT), AikoCarson_45 (CT), Amok_45 (CT), AndPeggy_41 (CT), Axym_43 (CT), BillDoor_44 (CT), Burnsey_44 (CT), Carsonalex_47 (CT), Cozz_42 (CT), Elliott_44 (CT), Emalyn_43 (CT), FF47_44A (AB), GTE2_36 (CT), GoldHunter_45 (CT), Maco6_43 (AB), Muddy_45 (AB), MunkgeeRoachy_42 (CT), Nina_43 (CT), NoShow_53 (AB), PsychoKiller_43 (CT), Quasar_44 (CT), RedBaron_46 (CT), Sopespian_42 (CT), Starburst_44 (CT), SteamedHams_44 (CT), SweatNTears_45 (CT), Tolls_45 (CT), Typhonmacy_44 (CT), Yarn_41 (CT),

Start 16:

- Found in 1 of 43 (2.3%) of genes in pham
- Manual Annotations of this start: 1 of 31
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MyraDee_33 (A18),

Start 17:

- Found in 2 of 43 (4.7%) of genes in pham

- Manual Annotations of this start: 2 of 31
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Huwbart_70 (GG), Triscuit_69 (GG),

Summary by clusters:

There are 4 clusters represented in this pham: GG, AB, A18, CT,

Info for manual annotations of cluster A18:

- Start number 16 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster AB:

- Start number 15 was manually annotated 3 times for cluster AB.

Info for manual annotations of cluster CT:

- Start number 9 was manually annotated 2 times for cluster CT.
- Start number 14 was manually annotated 7 times for cluster CT.
- Start number 15 was manually annotated 16 times for cluster CT.

Info for manual annotations of cluster GG:

- Start number 17 was manually annotated 2 times for cluster GG.

Gene Information:

Gene: 8UZL_45 Start: 34790, Stop: 34248, Start Num: 15

Candidate Starts for 8UZL_45:

(Start: 15 @34790 has 19 MA's), (18, 34763), (20, 34751), (22, 34706), (23, 34697), (26, 34673), (27, 34640), (41, 34484), (42, 34478), (49, 34397),

Gene: Agatha_44 Start: 33075, Stop: 32551, Start Num: 15

Candidate Starts for Agatha_44:

(10, 33123), (11, 33120), (Start: 15 @33075 has 19 MA's), (24, 32976), (27, 32925), (33, 32829), (38, 32790), (43, 32748), (50, 32673), (60, 32631),

Gene: AikoCarson_45 Start: 33253, Stop: 32798, Start Num: 15

Candidate Starts for AikoCarson_45:

(11, 33298), (Start: 15 @33253 has 19 MA's), (24, 33154), (25, 33139), (32, 33046), (33, 33007), (38, 32968), (40, 32953), (41, 32947), (47, 32884),

Gene: Amok_45 Start: 33277, Stop: 32822, Start Num: 15

Candidate Starts for Amok_45:

(Start: 15 @33277 has 19 MA's), (24, 33178), (32, 33070), (33, 33031), (38, 32992), (40, 32977), (41, 32971), (47, 32908), (50, 32875),

Gene: AndPeggy_41 Start: 32608, Stop: 32153, Start Num: 15

Candidate Starts for AndPeggy_41:

(1, 32992), (3, 32857), (5, 32806), (6, 32764), (8, 32674), (11, 32653), (Start: 15 @32608 has 19 MA's), (24, 32509), (25, 32494), (27, 32458), (32, 32401), (33, 32362), (36, 32347), (38, 32323), (40, 32308), (47, 32239), (50, 32206),

Gene: Axym_43 Start: 32972, Stop: 32448, Start Num: 15

Candidate Starts for Axym_43:

(11, 33017), (Start: 15 @32972 has 19 MA's), (24, 32873), (27, 32822), (33, 32726), (38, 32687), (43, 32645), (50, 32570), (60, 32528),

Gene: BillDoor_44 Start: 32280, Stop: 31822, Start Num: 15

Candidate Starts for BillDoor_44:

(Start: 15 @32280 has 19 MA's), (24, 32181), (25, 32166), (27, 32130), (32, 32073), (33, 32034), (36, 32019), (38, 31995), (40, 31980), (43, 31953), (50, 31878), (54, 31863), (58, 31842), (59, 31839),

Gene: Biskit_46 Start: 32979, Stop: 32512, Start Num: 14

Candidate Starts for Biskit_46:

(Start: 14 @32979 has 7 MA's), (24, 32871), (27, 32820), (32, 32763), (33, 32724), (36, 32709), (38, 32685), (43, 32643), (50, 32568), (53, 32556), (54, 32553), (59, 32529), (60, 32526),

Gene: Blondies_46 Start: 33296, Stop: 32829, Start Num: 14

Candidate Starts for Blondies_46:

(Start: 14 @33296 has 7 MA's), (24, 33188), (27, 33137), (32, 33080), (33, 33041), (36, 33026), (38, 33002), (43, 32960), (50, 32885), (53, 32873), (54, 32870), (59, 32846), (60, 32843),

Gene: Burnsey_44 Start: 33066, Stop: 32542, Start Num: 15

Candidate Starts for Burnsey_44:

(11, 33111), (Start: 15 @33066 has 19 MA's), (24, 32967), (27, 32916), (33, 32820), (38, 32781), (43, 32739), (50, 32664), (60, 32622),

Gene: Buttrmlkdreams_46 Start: 33426, Stop: 32959, Start Num: 14

Candidate Starts for Buttrmlkdreams_46:

(Start: 14 @33426 has 7 MA's), (24, 33318), (27, 33267), (32, 33210), (33, 33171), (36, 33156), (38, 33132), (43, 33090), (50, 33015), (53, 33003), (54, 33000), (59, 32976),

Gene: Carsonalex_47 Start: 33034, Stop: 32510, Start Num: 15

Candidate Starts for Carsonalex_47:

(11, 33079), (Start: 15 @33034 has 19 MA's), (24, 32935), (27, 32884), (33, 32788), (38, 32749), (43, 32707), (50, 32632), (60, 32590),

Gene: Cozz_42 Start: 32663, Stop: 32139, Start Num: 15

Candidate Starts for Cozz_42:

(10, 32711), (11, 32708), (Start: 15 @32663 has 19 MA's), (24, 32564), (27, 32513), (33, 32417), (38, 32378), (43, 32336), (50, 32261), (60, 32219),

Gene: Elliott_44 Start: 32961, Stop: 32437, Start Num: 15

Candidate Starts for Elliott_44:

(11, 33006), (Start: 15 @32961 has 19 MA's), (24, 32862), (27, 32811), (30, 32766), (33, 32715), (38, 32676), (43, 32634), (50, 32559), (60, 32517),

Gene: Emalyn_43 Start: 32069, Stop: 31614, Start Num: 15

Candidate Starts for Emalyn_43:

(11, 32114), (Start: 15 @32069 has 19 MA's), (24, 31970), (32, 31862), (33, 31823), (38, 31784), (40, 31769), (41, 31763), (47, 31700), (50, 31667),

Gene: FF47_44A Start: 34701, Stop: 34159, Start Num: 15

Candidate Starts for FF47_44A:

(Start: 15 @34701 has 19 MA's), (18, 34674), (20, 34662), (23, 34608), (26, 34584), (27, 34551), (34, 34452), (41, 34395), (49, 34308),

Gene: GTE2_36 Start: 32665, Stop: 32207, Start Num: 15

Candidate Starts for GTE2_36:

(11, 32710), (Start: 15 @32665 has 19 MA's), (24, 32566), (25, 32551), (27, 32515), (32, 32458), (33, 32419), (38, 32380), (40, 32365), (43, 32338), (50, 32263), (54, 32248), (58, 32227), (59, 32224),

Gene: GoldHunter_45 Start: 33075, Stop: 32551, Start Num: 15

Candidate Starts for GoldHunter_45:

(10, 33123), (11, 33120), (Start: 15 @33075 has 19 MA's), (24, 32976), (27, 32925), (33, 32829), (38, 32790), (43, 32748), (50, 32673),

Gene: Horseradish_46 Start: 32912, Stop: 32445, Start Num: 14

Candidate Starts for Horseradish_46:

(Start: 14 @32912 has 7 MA's), (24, 32804), (27, 32753), (32, 32696), (33, 32657), (36, 32642), (38, 32618), (43, 32576), (50, 32501), (53, 32489), (54, 32486), (59, 32462), (60, 32459),

Gene: Huwbert_70 Start: 43330, Stop: 43914, Start Num: 17

Candidate Starts for Huwbert_70:

(Start: 17 @43330 has 2 MA's), (18, 43351), (19, 43357), (22, 43408), (27, 43474), (31, 43531), (35, 43588), (39, 43633), (56, 43765), (57, 43774), (62, 43825), (63, 43861), (64, 43867),

Gene: MScarn_48 Start: 33094, Stop: 32627, Start Num: 14

Candidate Starts for MScarn_48:

(Start: 14 @33094 has 7 MA's), (24, 32986), (27, 32935), (32, 32878), (33, 32839), (36, 32824), (38, 32800), (43, 32758), (50, 32683), (58, 32647), (59, 32644),

Gene: Maco6_43 Start: 34041, Stop: 33499, Start Num: 15

Candidate Starts for Maco6_43:

(Start: 15 @34041 has 19 MA's), (18, 34014), (20, 34002), (23, 33948), (26, 33924), (27, 33891), (41, 33735), (42, 33729), (49, 33648),

Gene: Muddy_45 Start: 35273, Stop: 34731, Start Num: 15

Candidate Starts for Muddy_45:

(Start: 15 @35273 has 19 MA's), (18, 35246), (20, 35234), (23, 35180), (26, 35156), (27, 35123), (34, 35024), (41, 34967), (49, 34880),

Gene: MunkgeeRoachy_42 Start: 32424, Stop: 31900, Start Num: 15

Candidate Starts for MunkgeeRoachy_42:

(11, 32469), (Start: 15 @32424 has 19 MA's), (24, 32325), (27, 32274), (28, 32256), (30, 32229), (33, 32178), (38, 32139), (40, 32124), (43, 32097), (46, 32085), (50, 32022), (60, 31980),

Gene: MyraDee_33 Start: 25725, Stop: 25126, Start Num: 16

Candidate Starts for MyraDee_33:

(2, 26043), (4, 25971), (Start: 16 @25725 has 1 MA's), (21, 25677), (43, 25362), (44, 25359), (61, 25227), (65, 25134),

Gene: Nina_43 Start: 33199, Stop: 32675, Start Num: 15

Candidate Starts for Nina_43:

(11, 33244), (Start: 15 @33199 has 19 MA's), (24, 33100), (27, 33049), (33, 32953), (38, 32914), (43, 32872), (50, 32797), (60, 32755),

Gene: NoShow_53 Start: 38273, Stop: 37752, Start Num: 15

Candidate Starts for NoShow_53:

(7, 38381), (13, 38285), (Start: 15 @38273 has 19 MA's), (43, 37946), (45, 37937), (48, 37892), (49, 37880), (50, 37871), (52, 37865),

Gene: PotPie_45 Start: 35409, Stop: 34900, Start Num: 9

Candidate Starts for PotPie_45:

(Start: 9 @35409 has 2 MA's), (27, 35205), (33, 35109), (36, 35094), (41, 35049), (43, 35028), (50, 34953), (51, 34950), (55, 34935),

Gene: PsychoKiller_43 Start: 32962, Stop: 32438, Start Num: 15

Candidate Starts for PsychoKiller_43:

(11, 33007), (Start: 15 @32962 has 19 MA's), (24, 32863), (27, 32812), (30, 32767), (33, 32716), (38, 32677), (43, 32635), (50, 32560), (60, 32518),

Gene: Quasar_44 Start: 33624, Stop: 33100, Start Num: 15

Candidate Starts for Quasar_44:

(11, 33669), (12, 33660), (Start: 15 @33624 has 19 MA's), (24, 33525), (27, 33474), (33, 33378), (38, 33339), (43, 33297), (50, 33222), (60, 33180),

Gene: RedBaron_46 Start: 33291, Stop: 32767, Start Num: 15

Candidate Starts for RedBaron_46:

(11, 33336), (Start: 15 @33291 has 19 MA's), (24, 33192), (27, 33141), (33, 33045), (38, 33006), (43, 32964), (50, 32889), (60, 32847),

Gene: SketchMex_44 Start: 32979, Stop: 32512, Start Num: 14

Candidate Starts for SketchMex_44:

(Start: 14 @32979 has 7 MA's), (24, 32871), (27, 32820), (32, 32763), (33, 32724), (36, 32709), (38, 32685), (43, 32643), (50, 32568), (53, 32556), (54, 32553), (59, 32529), (60, 32526),

Gene: Sopespian_42 Start: 32963, Stop: 32439, Start Num: 15

Candidate Starts for Sopespian_42:

(11, 33008), (Start: 15 @32963 has 19 MA's), (24, 32864), (27, 32813), (30, 32768), (33, 32717), (38, 32678), (43, 32636), (50, 32561), (60, 32519),

Gene: Starburst_44 Start: 32956, Stop: 32432, Start Num: 15

Candidate Starts for Starburst_44:

(11, 33001), (Start: 15 @32956 has 19 MA's), (24, 32857), (27, 32806), (30, 32761), (33, 32710), (38, 32671), (43, 32629), (50, 32554), (60, 32512),

Gene: SteamedHams_44 Start: 32460, Stop: 32005, Start Num: 15

Candidate Starts for SteamedHams_44:

(1, 32844), (3, 32709), (5, 32658), (6, 32616), (8, 32526), (11, 32505), (Start: 15 @32460 has 19 MA's), (24, 32361), (25, 32346), (27, 32310), (32, 32253), (33, 32214), (36, 32199), (38, 32175), (40, 32160), (47, 32091), (50, 32058),

Gene: SweatNTears_45 Start: 32906, Stop: 32448, Start Num: 15

Candidate Starts for SweatNTears_45:

(Start: 15 @32906 has 19 MA's), (24, 32807), (27, 32756), (32, 32699), (33, 32660), (36, 32645), (38, 32621), (43, 32579), (50, 32504), (53, 32492), (54, 32489), (59, 32465), (60, 32462),

Gene: Tolls_45 Start: 32853, Stop: 32398, Start Num: 15

Candidate Starts for Tolls_45:

(1, 33237), (3, 33102), (5, 33051), (6, 33009), (8, 32919), (11, 32898), (Start: 15 @32853 has 19 MA's), (24, 32754), (25, 32739), (27, 32703), (32, 32646), (33, 32607), (36, 32592), (38, 32568), (40, 32553),

(43, 32526), (50, 32451),

Gene: Triscuit_69 Start: 43287, Stop: 43871, Start Num: 17

Candidate Starts for Triscuit_69:

(Start: 17 @43287 has 2 MA's), (18, 43308), (19, 43314), (22, 43365), (27, 43431), (31, 43488), (35, 43545), (37, 43563), (39, 43590), (56, 43722), (57, 43731), (62, 43782), (63, 43818), (64, 43824),

Gene: Troje_46 Start: 33317, Stop: 32850, Start Num: 14

Candidate Starts for Troje_46:

(Start: 14 @33317 has 7 MA's), (24, 33209), (27, 33158), (32, 33101), (33, 33062), (36, 33047), (38, 33023), (43, 32981), (50, 32906), (53, 32894), (54, 32891), (59, 32867), (60, 32864),

Gene: Typhonomachy_44 Start: 32785, Stop: 32261, Start Num: 15

Candidate Starts for Typhonomachy_44:

(11, 32830), (Start: 15 @32785 has 19 MA's), (24, 32686), (27, 32635), (33, 32539), (38, 32500), (43, 32458), (50, 32383), (60, 32341),

Gene: Vine_48 Start: 35175, Stop: 34666, Start Num: 9

Candidate Starts for Vine_48:

(Start: 9 @35175 has 2 MA's), (29, 34941), (33, 34875), (36, 34860), (41, 34815), (43, 34794), (50, 34719), (51, 34716), (55, 34701),

Gene: Yarn_41 Start: 32613, Stop: 32158, Start Num: 15

Candidate Starts for Yarn_41:

(1, 32997), (3, 32862), (5, 32811), (6, 32769), (8, 32679), (11, 32658), (Start: 15 @32613 has 19 MA's), (24, 32514), (25, 32499), (27, 32463), (32, 32406), (33, 32367), (36, 32352), (38, 32328), (40, 32313), (47, 32244), (50, 32211),

Gene: Yummy_46 Start: 33026, Stop: 32559, Start Num: 14

Candidate Starts for Yummy_46:

(Start: 14 @33026 has 7 MA's), (24, 32918), (27, 32867), (32, 32810), (33, 32771), (36, 32756), (38, 32732), (43, 32690), (50, 32615), (53, 32603), (54, 32600), (59, 32576), (60, 32573),