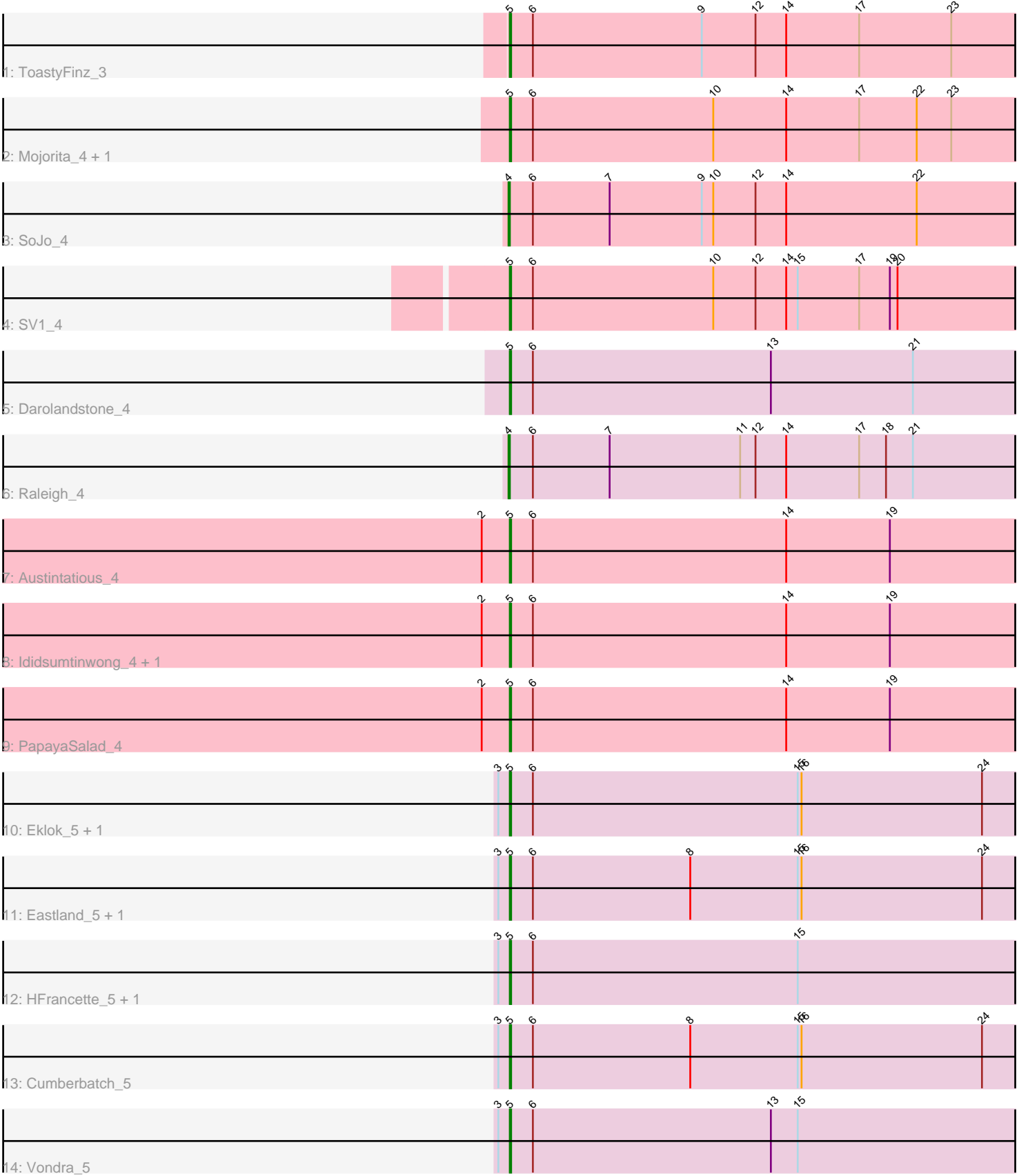


Zoomed Pham 3885



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 3885 Report

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

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 3885 has 19 members, 0 are drafts.

Phages represented in each track:

- Track 1 : ToastyFinz_3
- Track 2 : Mojorita_4, Picard_4
- Track 3 : SoJo_4
- Track 4 : SV1_4
- Track 5 : Darolandstone_4
- Track 6 : Raleigh_4
- Track 7 : Austintatious_4
- Track 8 : Ididsumtinwong_4, Bioscum_4
- Track 9 : PapayaSalad_4
- Track 10 : Eklok_5, AxeJC_5
- Track 11 : Eastland_5, Piccadilly_5
- Track 12 : HFrancette_5, Ignacio_5
- Track 13 : Cumberbatch_5
- Track 14 : Vondra_5

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 17 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Austintatious_4, AxeJC_5, Bioscum_4, Cumberbatch_5, Darolandstone_4, Eastland_5, Eklok_5, HFrancette_5, Ididsumtinwong_4, Ignacio_5, Mojorita_4, PapayaSalad_4, Picard_4, Piccadilly_5, SV1_4, ToastyFinz_3, Vondra_5,

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

-

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

- Raleigh_4, SoJo_4,

Summary by start number:

Start 4:

- Found in 2 of 19 (10.5%) of genes in pham
- Manual Annotations of this start: 2 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Raleigh_4 (BC2), SoJo_4 (BC1),

Start 5:

- Found in 17 of 19 (89.5%) of genes in pham
- Manual Annotations of this start: 17 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Austintatious_4 (BC3), AxeJC_5 (BP), Bioscum_4 (BC3), Cumberbatch_5 (BP), Darolandstone_4 (BC2), Eastland_5 (BP), Eklok_5 (BP), HFrancette_5 (BP), Ididsumtinwong_4 (BC3), Ignacio_5 (BP), Moajorita_4 (BC1), PapayaSalad_4 (BC3), Picard_4 (BC1), Piccadilly_5 (BP), SV1_4 (BC1), ToastyFinz_3 (BC1), Vondra_5 (BP),

Summary by clusters:

There are 4 clusters represented in this pham: BP, BC1, BC2, BC3,

Info for manual annotations of cluster BC1:

- Start number 4 was manually annotated 1 time for cluster BC1.
- Start number 5 was manually annotated 4 times for cluster BC1.

Info for manual annotations of cluster BC2:

- Start number 4 was manually annotated 1 time for cluster BC2.
- Start number 5 was manually annotated 1 time for cluster BC2.

Info for manual annotations of cluster BC3:

- Start number 5 was manually annotated 4 times for cluster BC3.

Info for manual annotations of cluster BP:

- Start number 5 was manually annotated 8 times for cluster BP.

Gene Information:

Gene: Austintatious_4 Start: 3006, Stop: 4985, Start Num: 5

Candidate Starts for Austintatious_4:

(2, 2985), (Start: 5 @3006 has 17 MA's), (6, 3024), (14, 3222), (19, 3303), (29, 3498), (30, 3579), (32, 3597), (33, 3624), (34, 3657), (42, 3792), (44, 3861), (46, 3873), (49, 3891), (52, 4050), (60, 4173), (63, 4197), (64, 4206), (68, 4248), (78, 4395), (80, 4440), (85, 4536), (89, 4617), (105, 4953),

Gene: AxeJC_5 Start: 3516, Stop: 5327, Start Num: 5

Candidate Starts for AxeJC_5:

(3, 3507), (Start: 5 @3516 has 17 MA's), (6, 3534), (15, 3741), (16, 3744), (24, 3885), (26, 3942), (27, 3951), (29, 4008), (30, 4089), (32, 4107), (40, 4293), (41, 4296), (51, 4542), (52, 4563), (70, 4671), (73, 4710), (74, 4719), (76, 4734), (77, 4746), (87, 4905), (90, 4962), (93, 5022), (94, 5046), (101, 5145),

Gene: Bioscum_4 Start: 3009, Stop: 4988, Start Num: 5

Candidate Starts for Bioscum_4:

(1, 2343), (2, 2988), (Start: 5 @3009 has 17 MA's), (6, 3027), (14, 3225), (19, 3306), (29, 3501), (30, 3582), (32, 3600), (33, 3627), (34, 3660), (42, 3795), (44, 3864), (46, 3876), (49, 3894), (52, 4053), (60, 4176), (63, 4200), (64, 4209), (68, 4251), (78, 4398), (80, 4443), (85, 4539),

Gene: Cumberbatch_5 Start: 3503, Stop: 5314, Start Num: 5

Candidate Starts for Cumberbatch_5:

(3, 3494), (Start: 5 @3503 has 17 MA's), (6, 3521), (8, 3644), (15, 3728), (16, 3731), (24, 3872), (26, 3929), (27, 3938), (29, 3995), (30, 4076), (32, 4094), (37, 4211), (40, 4280), (41, 4283), (51, 4529), (52, 4550), (70, 4658), (73, 4697), (74, 4706), (76, 4721), (77, 4733), (87, 4892), (90, 4949), (93, 5009), (94, 5033), (101, 5132),

Gene: Darolandstone_4 Start: 2920, Stop: 5166, Start Num: 5

Candidate Starts for Darolandstone_4:

(Start: 5 @2920 has 17 MA's), (6, 2938), (13, 3124), (21, 3235), (25, 3322), (29, 3412), (30, 3493), (31, 3499), (34, 3571), (35, 3577), (40, 3697), (52, 3964), (55, 4120), (57, 4153), (58, 4180), (66, 4369), (67, 4378), (69, 4414), (75, 4573), (78, 4600), (80, 4645), (81, 4669), (88, 4792), (91, 4807), (94, 4885), (95, 4900), (97, 4906), (103, 5068),

Gene: Eastland_5 Start: 3504, Stop: 5315, Start Num: 5

Candidate Starts for Eastland_5:

(3, 3495), (Start: 5 @3504 has 17 MA's), (6, 3522), (8, 3645), (15, 3729), (16, 3732), (24, 3873), (26, 3930), (27, 3939), (29, 3996), (30, 4077), (32, 4095), (40, 4281), (41, 4284), (51, 4530), (52, 4551), (70, 4659), (73, 4698), (74, 4707), (76, 4722), (77, 4734), (87, 4893), (90, 4950), (93, 5010), (94, 5034), (101, 5133),

Gene: Eklok_5 Start: 3516, Stop: 5327, Start Num: 5

Candidate Starts for Eklok_5:

(3, 3507), (Start: 5 @3516 has 17 MA's), (6, 3534), (15, 3741), (16, 3744), (24, 3885), (26, 3942), (27, 3951), (29, 4008), (30, 4089), (32, 4107), (40, 4293), (41, 4296), (51, 4542), (52, 4563), (70, 4671), (73, 4710), (74, 4719), (76, 4734), (77, 4746), (87, 4905), (90, 4962), (93, 5022), (94, 5046), (101, 5145),

Gene: HFrancette_5 Start: 3509, Stop: 5317, Start Num: 5

Candidate Starts for HFrancette_5:

(3, 3500), (Start: 5 @3509 has 17 MA's), (6, 3527), (15, 3734), (26, 3935), (27, 3944), (29, 4001), (30, 4082), (32, 4100), (37, 4217), (40, 4286), (42, 4295), (44, 4364), (52, 4556), (70, 4664), (73, 4703), (74, 4712), (76, 4727), (77, 4739), (87, 4898), (90, 4955), (93, 5012), (94, 5036), (101, 5135),

Gene: Ididsumtinwong_4 Start: 3009, Stop: 4988, Start Num: 5

Candidate Starts for Ididsumtinwong_4:

(1, 2343), (2, 2988), (Start: 5 @3009 has 17 MA's), (6, 3027), (14, 3225), (19, 3306), (29, 3501), (30, 3582), (32, 3600), (33, 3627), (34, 3660), (42, 3795), (44, 3864), (46, 3876), (49, 3894), (52, 4053), (60, 4176), (63, 4200), (64, 4209), (68, 4251), (78, 4398), (80, 4443), (85, 4539),

Gene: Ignacio_5 Start: 3509, Stop: 5317, Start Num: 5

Candidate Starts for Ignacio_5:

(3, 3500), (Start: 5 @3509 has 17 MA's), (6, 3527), (15, 3734), (26, 3935), (27, 3944), (29, 4001), (30, 4082), (32, 4100), (37, 4217), (40, 4286), (42, 4295), (44, 4364), (52, 4556), (70, 4664), (73, 4703), (74, 4712), (76, 4727), (77, 4739), (87, 4898), (90, 4955), (93, 5012), (94, 5036), (101, 5135),

Gene: Mojarita_4 Start: 2987, Stop: 5329, Start Num: 5

Candidate Starts for Mojarita_4:

(Start: 5 @2987 has 17 MA's), (6, 3005), (10, 3146), (14, 3203), (17, 3260), (22, 3305), (23, 3332), (29, 3479), (30, 3560), (33, 3605), (37, 3695), (38, 3698), (40, 3764), (45, 3848), (47, 3863), (51, 4010), (52, 4031), (55, 4154), (56, 4178), (57, 4187), (58, 4214), (61, 4355), (62, 4364), (72, 4577), (78, 4643), (83, 4760), (84, 4790), (86, 4817), (94, 5048), (98, 5078), (99, 5108), (102, 5153), (103, 5231), (104, 5258),

Gene: PapayaSalad_4 Start: 3006, Stop: 4985, Start Num: 5

Candidate Starts for PapayaSalad_4:

(2, 2985), (Start: 5 @3006 has 17 MA's), (6, 3024), (14, 3222), (19, 3303), (29, 3498), (30, 3579), (32, 3597), (33, 3624), (34, 3657), (42, 3792), (44, 3861), (46, 3873), (49, 3891), (52, 4050), (60, 4173), (63, 4197), (64, 4206), (68, 4248), (78, 4395), (80, 4440), (85, 4536), (89, 4617), (105, 4953),

Gene: Picard_4 Start: 2987, Stop: 5329, Start Num: 5

Candidate Starts for Picard_4:

(Start: 5 @2987 has 17 MA's), (6, 3005), (10, 3146), (14, 3203), (17, 3260), (22, 3305), (23, 3332), (29, 3479), (30, 3560), (33, 3605), (37, 3695), (38, 3698), (40, 3764), (45, 3848), (47, 3863), (51, 4010), (52, 4031), (55, 4154), (56, 4178), (57, 4187), (58, 4214), (61, 4355), (62, 4364), (72, 4577), (78, 4643), (83, 4760), (84, 4790), (86, 4817), (94, 5048), (98, 5078), (99, 5108), (102, 5153), (103, 5231), (104, 5258),

Gene: Piccadilly_5 Start: 3503, Stop: 5314, Start Num: 5

Candidate Starts for Piccadilly_5:

(3, 3494), (Start: 5 @3503 has 17 MA's), (6, 3521), (8, 3644), (15, 3728), (16, 3731), (24, 3872), (26, 3929), (27, 3938), (29, 3995), (30, 4076), (32, 4094), (40, 4280), (41, 4283), (51, 4529), (52, 4550), (70, 4658), (73, 4697), (74, 4706), (76, 4721), (77, 4733), (87, 4892), (90, 4949), (93, 5009), (94, 5033), (101, 5132),

Gene: Raleigh_4 Start: 2919, Stop: 5147, Start Num: 4

Candidate Starts for Raleigh_4:

(Start: 4 @2919 has 2 MA's), (6, 2937), (7, 2997), (11, 3099), (12, 3111), (14, 3135), (17, 3192), (18, 3213), (21, 3234), (29, 3411), (30, 3492), (35, 3576), (39, 3636), (40, 3696), (42, 3705), (44, 3774), (48, 3801), (52, 3963), (54, 4002), (57, 4119), (66, 4335), (67, 4344), (69, 4380), (75, 4539), (78, 4566), (80, 4611), (84, 4704), (85, 4707), (95, 4881), (102, 4971),

Gene: SV1_4 Start: 2988, Stop: 4985, Start Num: 5

Candidate Starts for SV1_4:

(Start: 5 @2988 has 17 MA's), (6, 3006), (10, 3147), (12, 3180), (14, 3204), (15, 3213), (17, 3261), (19, 3285), (20, 3291), (26, 3414), (29, 3480), (30, 3561), (31, 3567), (33, 3606), (34, 3639), (39, 3705), (42, 3774), (43, 3816), (44, 3843), (49, 3873), (50, 3975), (52, 4032), (60, 4191), (63, 4215), (64, 4224), (68, 4266), (78, 4413), (80, 4458), (85, 4554), (94, 4704), (95, 4719), (96, 4722), (100, 4767),

Gene: SoJo_4 Start: 2991, Stop: 5234, Start Num: 4

Candidate Starts for SoJo_4:

(Start: 4 @2991 has 2 MA's), (6, 3009), (7, 3069), (9, 3141), (10, 3150), (12, 3183), (14, 3207), (22, 3309), (28, 3471), (30, 3564), (33, 3609), (42, 3777), (44, 3846), (49, 3876), (51, 4014), (52, 4035), (53, 4065), (55, 4158), (56, 4182), (57, 4191), (59, 4320), (62, 4365), (65, 4395), (66, 4404), (78, 4638), (79, 4665), (80, 4683), (85, 4779), (95, 4968), (104, 5163),

Gene: ToastyFinz_3 Start: 2762, Stop: 5104, Start Num: 5

Candidate Starts for ToastyFinz_3:

(Start: 5 @2762 has 17 MA's), (6, 2780), (9, 2912), (12, 2954), (14, 2978), (17, 3035), (23, 3107), (27, 3197), (29, 3254), (30, 3335), (31, 3341), (33, 3380), (36, 3446), (37, 3470), (38, 3473), (40, 3539), (41, 3542), (43, 3590), (44, 3617), (52, 3806), (55, 3929), (56, 3953), (57, 3962), (58, 3989), (62, 4139), (71, 4340), (72, 4352), (78, 4418), (79, 4445), (82, 4526), (84, 4565), (85, 4568), (86, 4592), (92, 4784), (94, 4823), (99, 4883), (102, 4928), (106, 5093),

Gene: Vondra_5 Start: 3506, Stop: 5314, Start Num: 5

Candidate Starts for Vondra_5:

(3, 3497), (Start: 5 @3506 has 17 MA's), (6, 3524), (13, 3710), (15, 3731), (26, 3932), (27, 3941), (29, 3998), (30, 4079), (32, 4097), (37, 4214), (40, 4283), (41, 4286), (44, 4361), (51, 4532), (52, 4553), (70, 4661), (73, 4700), (74, 4709), (76, 4724), (77, 4736), (87, 4895), (90, 4952), (93, 5009), (94, 5033), (101, 5132),