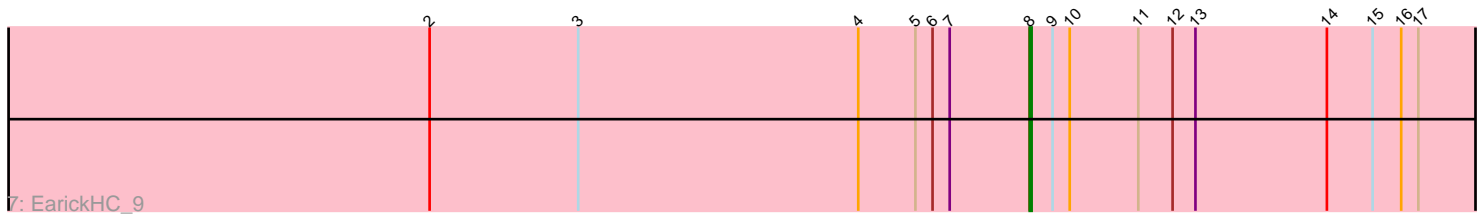
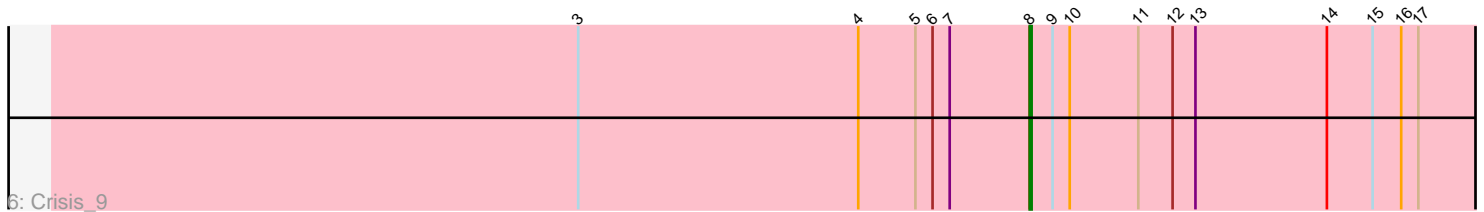
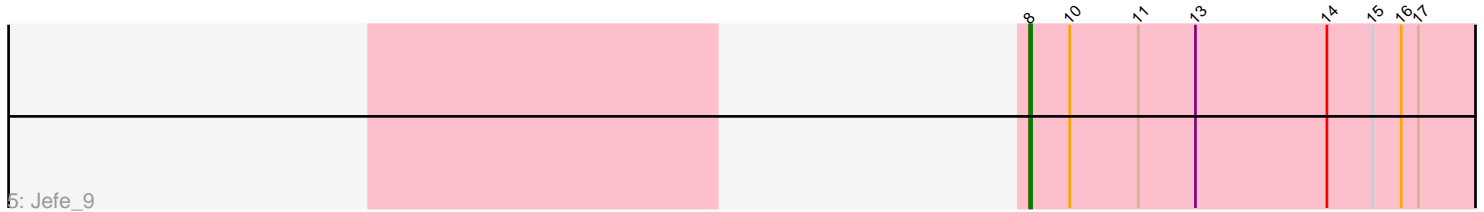
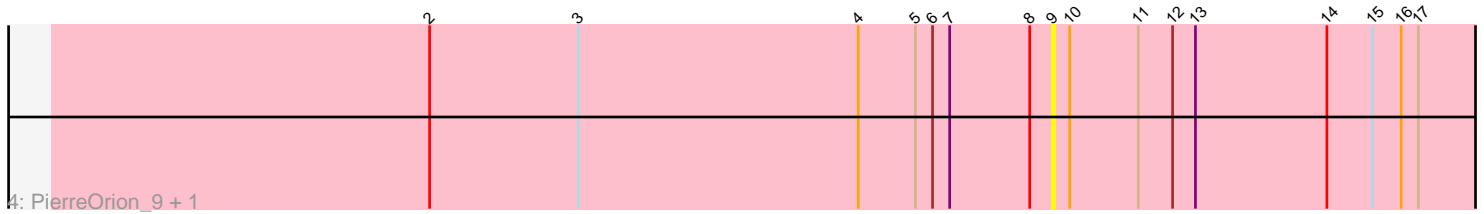
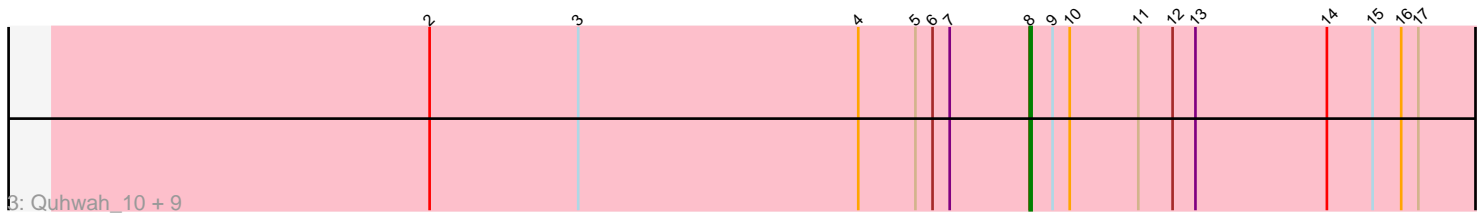
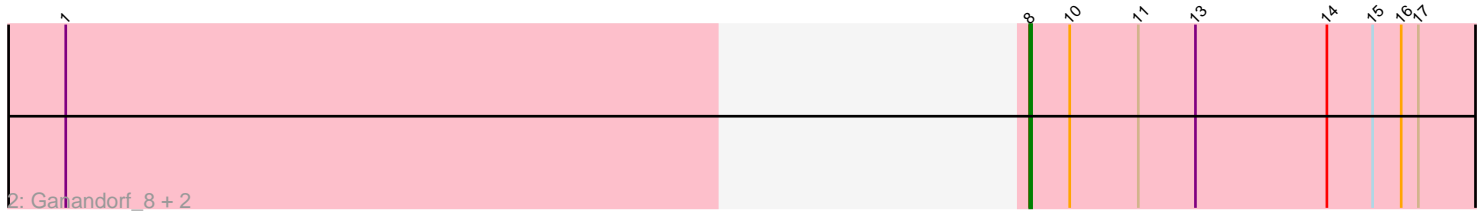
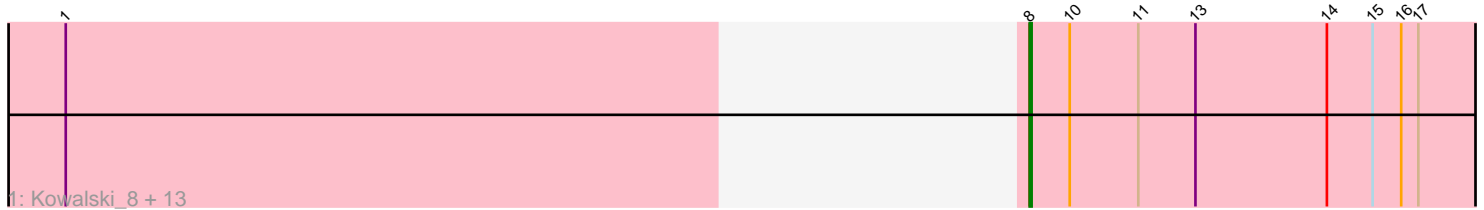


Pham 3093



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 3093 Report

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

Pham number 3093 has 32 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Kowalski_8, Ramiel05_8, Shotgun_8, Antares_9, BrazzalePHS_8, PiperSansNom_9, Jollipop_8, LittleFortune_9, Paschalis_8, CrazyRich_8, Savannah_8, Phorgeous_8, Hermeonysus_8, Onika_8
- Track 2 : Ganandorf_8, Busephilis_9, NoodlelyBoi_8
- Track 3 : Quhwah_10, ClearAsMud_9, Selwyn23_10, KaiHaiDragon_9, Pulchra_10, Piperis_9, Honeyfin_10, Phrancesco_10, Scumberland_10, Cranjis_9
- Track 4 : PierreOrion_9, Yeti_9
- Track 5 : Jefe_9
- Track 6 : Crisis_9
- Track 7 : EarickHC_9

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

The start number called the most often in the published annotations is 8, it was called in 28 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Antares_9, BrazzalePHS_8, Busephilis_9, ClearAsMud_9, Cranjis_9, CrazyRich_8, Crisis_9, EarickHC_9, Ganandorf_8, Hermeonysus_8, Honeyfin_10, Jefe_9, Jollipop_8, KaiHaiDragon_9, Kowalski_8, LittleFortune_9, NoodlelyBoi_8, Onika_8, Paschalis_8, Phorgeous_8, Phrancesco_10, PiperSansNom_9, Piperis_9, Pulchra_10, Quhwah_10, Ramiel05_8, Savannah_8, Scumberland_10, Selwyn23_10, Shotgun_8,

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

- PierreOrion_9, Yeti_9,

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

•

Summary by start number:

Start 8:

- Found in 32 of 32 (100.0%) of genes in pham

- Manual Annotations of this start: 28 of 28
- Called 93.8% of time when present
- Phage (with cluster) where this start called: Antares_9 (EC), BrazzalePHS_8 (EC), Busephilis_9 (EC), ClearAsMud_9 (EC), Cranjis_9 (EC), CrazyRich_8 (EC), Crisis_9 (EC), EarickHC_9 (EC), Ganandorf_8 (EC), Hermeonysus_8 (EC), Honeyfin_10 (EC), Jefe_9 (EC), Jollipop_8 (EC), KaiHaiDragon_9 (EC), Kowalski_8 (EC), LittleFortune_9 (EC), NoodlelyBoi_8 (EC), Onika_8 (EC), Paschalis_8 (EC), Phorgeous_8 (EC), Phrancesco_10 (EC), PiperSansNom_9 (EC), Piperis_9 (EC), Pulchra_10 (EC), Quhwah_10 (EC), Ramiel05_8 (EC), Savannah_8 (EC), Scumberland_10 (EC), Selwyn23_10 (EC), Shotgun_8 (EC),

Start 9:

- Found in 14 of 32 (43.8%) of genes in pham
- No Manual Annotations of this start.
- Called 14.3% of time when present
- Phage (with cluster) where this start called: PierreOrion_9 (EC), Yeti_9 (EC),

Summary by clusters:

There is one cluster represented in this pham: EC

Info for manual annotations of cluster EC:

- Start number 8 was manually annotated 28 times for cluster EC.

Gene Information:

Gene: Antares_9 Start: 4422, Stop: 4748, Start Num: 8

Candidate Starts for Antares_9:

(1, 4074), (Start: 8 @4422 has 28 MA's), (10, 4443), (11, 4479), (13, 4509), (14, 4578), (15, 4602), (16, 4617), (17, 4626),

Gene: BrazzalePHS_8 Start: 4210, Stop: 4536, Start Num: 8

Candidate Starts for BrazzalePHS_8:

(1, 3862), (Start: 8 @4210 has 28 MA's), (10, 4231), (11, 4267), (13, 4297), (14, 4366), (15, 4390), (16, 4405), (17, 4414),

Gene: Busephilis_9 Start: 4431, Stop: 4757, Start Num: 8

Candidate Starts for Busephilis_9:

(1, 4083), (Start: 8 @4431 has 28 MA's), (10, 4452), (11, 4488), (13, 4518), (14, 4587), (15, 4611), (16, 4626), (17, 4635),

Gene: ClearAsMud_9 Start: 4646, Stop: 4972, Start Num: 8

Candidate Starts for ClearAsMud_9:

(2, 4331), (3, 4409), (4, 4556), (5, 4586), (6, 4595), (7, 4604), (Start: 8 @4646 has 28 MA's), (9, 4658), (10, 4667), (11, 4703), (12, 4721), (13, 4733), (14, 4802), (15, 4826), (16, 4841), (17, 4850),

Gene: Cranjis_9 Start: 4377, Stop: 4703, Start Num: 8

Candidate Starts for Cranjis_9:

(2, 4062), (3, 4140), (4, 4287), (5, 4317), (6, 4326), (7, 4335), (Start: 8 @4377 has 28 MA's), (9, 4389), (10, 4398), (11, 4434), (12, 4452), (13, 4464), (14, 4533), (15, 4557), (16, 4572), (17, 4581),

Gene: CrazyRich_8 Start: 4210, Stop: 4536, Start Num: 8

Candidate Starts for CrazyRich_8:

(1, 3862), (Start: 8 @4210 has 28 MA's), (10, 4231), (11, 4267), (13, 4297), (14, 4366), (15, 4390), (16, 4405), (17, 4414),

Gene: Crisis_9 Start: 4377, Stop: 4703, Start Num: 8

Candidate Starts for Crisis_9:

(3, 4140), (4, 4287), (5, 4317), (6, 4326), (7, 4335), (Start: 8 @4377 has 28 MA's), (9, 4389), (10, 4398), (11, 4434), (12, 4452), (13, 4464), (14, 4533), (15, 4557), (16, 4572), (17, 4581),

Gene: EarickHC_9 Start: 4377, Stop: 4703, Start Num: 8

Candidate Starts for EarickHC_9:

(2, 4062), (3, 4140), (4, 4287), (5, 4317), (6, 4326), (7, 4335), (Start: 8 @4377 has 28 MA's), (9, 4389), (10, 4398), (11, 4434), (12, 4452), (13, 4464), (14, 4533), (15, 4557), (16, 4572), (17, 4581),

Gene: Ganandorf_8 Start: 4438, Stop: 4764, Start Num: 8

Candidate Starts for Ganandorf_8:

(1, 4090), (Start: 8 @4438 has 28 MA's), (10, 4459), (11, 4495), (13, 4525), (14, 4594), (15, 4618), (16, 4633), (17, 4642),

Gene: Hermeonysus_8 Start: 4210, Stop: 4536, Start Num: 8

Candidate Starts for Hermeonysus_8:

(1, 3862), (Start: 8 @4210 has 28 MA's), (10, 4231), (11, 4267), (13, 4297), (14, 4366), (15, 4390), (16, 4405), (17, 4414),

Gene: Honeyfin_10 Start: 4586, Stop: 4912, Start Num: 8

Candidate Starts for Honeyfin_10:

(2, 4271), (3, 4349), (4, 4496), (5, 4526), (6, 4535), (7, 4544), (Start: 8 @4586 has 28 MA's), (9, 4598), (10, 4607), (11, 4643), (12, 4661), (13, 4673), (14, 4742), (15, 4766), (16, 4781), (17, 4790),

Gene: Jefe_9 Start: 4422, Stop: 4748, Start Num: 8

Candidate Starts for Jefe_9:

(Start: 8 @4422 has 28 MA's), (10, 4443), (11, 4479), (13, 4509), (14, 4578), (15, 4602), (16, 4617), (17, 4626),

Gene: Jollipop_8 Start: 4210, Stop: 4536, Start Num: 8

Candidate Starts for Jollipop_8:

(1, 3862), (Start: 8 @4210 has 28 MA's), (10, 4231), (11, 4267), (13, 4297), (14, 4366), (15, 4390), (16, 4405), (17, 4414),

Gene: KaiHaiDragon_9 Start: 4377, Stop: 4703, Start Num: 8

Candidate Starts for KaiHaiDragon_9:

(2, 4062), (3, 4140), (4, 4287), (5, 4317), (6, 4326), (7, 4335), (Start: 8 @4377 has 28 MA's), (9, 4389), (10, 4398), (11, 4434), (12, 4452), (13, 4464), (14, 4533), (15, 4557), (16, 4572), (17, 4581),

Gene: Kowalski_8 Start: 4210, Stop: 4536, Start Num: 8

Candidate Starts for Kowalski_8:

(1, 3862), (Start: 8 @4210 has 28 MA's), (10, 4231), (11, 4267), (13, 4297), (14, 4366), (15, 4390), (16, 4405), (17, 4414),

Gene: LittleFortune_9 Start: 4428, Stop: 4754, Start Num: 8

Candidate Starts for LittleFortune_9:

(1, 4080), (Start: 8 @4428 has 28 MA's), (10, 4449), (11, 4485), (13, 4515), (14, 4584), (15, 4608), (16, 4623), (17, 4632),

Gene: NoodlelyBoi_8 Start: 4222, Stop: 4548, Start Num: 8

Candidate Starts for NoodlelyBoi_8:

(1, 3874), (Start: 8 @4222 has 28 MA's), (10, 4243), (11, 4279), (13, 4309), (14, 4378), (15, 4402), (16, 4417), (17, 4426),

Gene: Onika_8 Start: 4210, Stop: 4536, Start Num: 8

Candidate Starts for Onika_8:

(1, 3862), (Start: 8 @4210 has 28 MA's), (10, 4231), (11, 4267), (13, 4297), (14, 4366), (15, 4390), (16, 4405), (17, 4414),

Gene: Paschalis_8 Start: 4219, Stop: 4545, Start Num: 8

Candidate Starts for Paschalis_8:

(1, 3871), (Start: 8 @4219 has 28 MA's), (10, 4240), (11, 4276), (13, 4306), (14, 4375), (15, 4399), (16, 4414), (17, 4423),

Gene: Phorgeous_8 Start: 4219, Stop: 4545, Start Num: 8

Candidate Starts for Phorgeous_8:

(1, 3871), (Start: 8 @4219 has 28 MA's), (10, 4240), (11, 4276), (13, 4306), (14, 4375), (15, 4399), (16, 4414), (17, 4423),

Gene: Phrancesco_10 Start: 4595, Stop: 4921, Start Num: 8

Candidate Starts for Phrancesco_10:

(2, 4280), (3, 4358), (4, 4505), (5, 4535), (6, 4544), (7, 4553), (Start: 8 @4595 has 28 MA's), (9, 4607), (10, 4616), (11, 4652), (12, 4670), (13, 4682), (14, 4751), (15, 4775), (16, 4790), (17, 4799),

Gene: PierreOrion_9 Start: 4389, Stop: 4703, Start Num: 9

Candidate Starts for PierreOrion_9:

(2, 4062), (3, 4140), (4, 4287), (5, 4317), (6, 4326), (7, 4335), (Start: 8 @4377 has 28 MA's), (9, 4389), (10, 4398), (11, 4434), (12, 4452), (13, 4464), (14, 4533), (15, 4557), (16, 4572), (17, 4581),

Gene: PiperSansNom_9 Start: 4523, Stop: 4849, Start Num: 8

Candidate Starts for PiperSansNom_9:

(1, 4175), (Start: 8 @4523 has 28 MA's), (10, 4544), (11, 4580), (13, 4610), (14, 4679), (15, 4703), (16, 4718), (17, 4727),

Gene: Piperis_9 Start: 4377, Stop: 4703, Start Num: 8

Candidate Starts for Piperis_9:

(2, 4062), (3, 4140), (4, 4287), (5, 4317), (6, 4326), (7, 4335), (Start: 8 @4377 has 28 MA's), (9, 4389), (10, 4398), (11, 4434), (12, 4452), (13, 4464), (14, 4533), (15, 4557), (16, 4572), (17, 4581),

Gene: Pulchra_10 Start: 4607, Stop: 4933, Start Num: 8

Candidate Starts for Pulchra_10:

(2, 4292), (3, 4370), (4, 4517), (5, 4547), (6, 4556), (7, 4565), (Start: 8 @4607 has 28 MA's), (9, 4619), (10, 4628), (11, 4664), (12, 4682), (13, 4694), (14, 4763), (15, 4787), (16, 4802), (17, 4811),

Gene: Quhwah_10 Start: 4589, Stop: 4915, Start Num: 8

Candidate Starts for Quhwah_10:

(2, 4274), (3, 4352), (4, 4499), (5, 4529), (6, 4538), (7, 4547), (Start: 8 @4589 has 28 MA's), (9, 4601), (10, 4610), (11, 4646), (12, 4664), (13, 4676), (14, 4745), (15, 4769), (16, 4784), (17, 4793),

Gene: Ramiel05_8 Start: 4210, Stop: 4536, Start Num: 8

Candidate Starts for Ramiel05_8:

(1, 3862), (Start: 8 @4210 has 28 MA's), (10, 4231), (11, 4267), (13, 4297), (14, 4366), (15, 4390), (16, 4405), (17, 4414),

Gene: Savannah_8 Start: 4234, Stop: 4560, Start Num: 8

Candidate Starts for Savannah_8:

(1, 3886), (Start: 8 @4234 has 28 MA's), (10, 4255), (11, 4291), (13, 4321), (14, 4390), (15, 4414), (16, 4429), (17, 4438),

Gene: Scumberland_10 Start: 4595, Stop: 4921, Start Num: 8

Candidate Starts for Scumberland_10:

(2, 4280), (3, 4358), (4, 4505), (5, 4535), (6, 4544), (7, 4553), (Start: 8 @4595 has 28 MA's), (9, 4607), (10, 4616), (11, 4652), (12, 4670), (13, 4682), (14, 4751), (15, 4775), (16, 4790), (17, 4799),

Gene: Selwyn23_10 Start: 4607, Stop: 4933, Start Num: 8

Candidate Starts for Selwyn23_10:

(2, 4292), (3, 4370), (4, 4517), (5, 4547), (6, 4556), (7, 4565), (Start: 8 @4607 has 28 MA's), (9, 4619), (10, 4628), (11, 4664), (12, 4682), (13, 4694), (14, 4763), (15, 4787), (16, 4802), (17, 4811),

Gene: Shotgun_8 Start: 4210, Stop: 4536, Start Num: 8

Candidate Starts for Shotgun_8:

(1, 3862), (Start: 8 @4210 has 28 MA's), (10, 4231), (11, 4267), (13, 4297), (14, 4366), (15, 4390), (16, 4405), (17, 4414),

Gene: Yeti_9 Start: 4389, Stop: 4703, Start Num: 9

Candidate Starts for Yeti_9:

(2, 4062), (3, 4140), (4, 4287), (5, 4317), (6, 4326), (7, 4335), (Start: 8 @4377 has 28 MA's), (9, 4389), (10, 4398), (11, 4434), (12, 4452), (13, 4464), (14, 4533), (15, 4557), (16, 4572), (17, 4581),