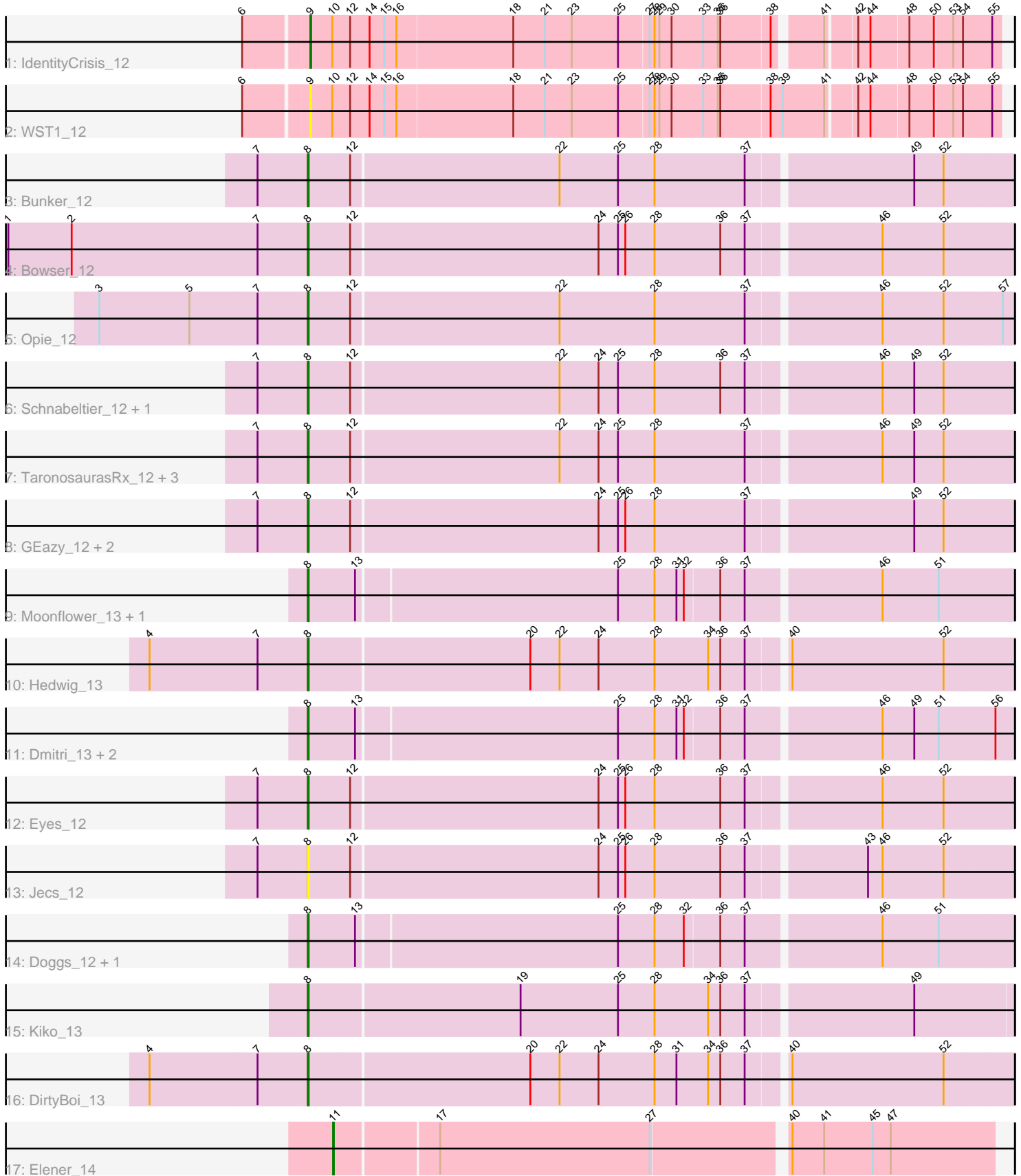


# Pham 309084



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 309084 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309084 has 27 members, 8 are drafts.

Phages represented in each track:

- Track 1 : IdentityCrisis\_12
- Track 2 : WST1\_12
- Track 3 : Bunker\_12
- Track 4 : Bowser\_12
- Track 5 : Opie\_12
- Track 6 : Schnabeltier\_12, MagicMan\_12
- Track 7 : TaronosaurusRx\_12, ZAYM\_12, BackstagePass\_12, BBQValindra\_12
- Track 8 : GEazy\_12, NaLuna\_12, HannahD\_12
- Track 9 : Moonflower\_13, RayTheFireFly\_13
- Track 10 : Hedwig\_13
- Track 11 : Dmitri\_13, Chipko\_13, PatriciaStar\_12
- Track 12 : Eyes\_12
- Track 13 : Jecs\_12
- Track 14 : Doggs\_12, Coriander\_13
- Track 15 : Kiko\_13
- Track 16 : DirtyBoi\_13
- Track 17 : Elener\_14

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

Genes that call this "Most Annotated" start:

- BBQValindra\_12, BackstagePass\_12, Bowser\_12, Bunker\_12, Chipko\_13, Coriander\_13, DirtyBoi\_13, Dmitri\_13, Doggs\_12, Eyes\_12, GEazy\_12, HannahD\_12, Hedwig\_13, Jecs\_12, Kiko\_13, MagicMan\_12, Moonflower\_13, NaLuna\_12, Opie\_12, PatriciaStar\_12, RayTheFireFly\_13, Schnabeltier\_12, TaronosaurusRx\_12, ZAYM\_12,

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

- 

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

- Elener\_14, IdentityCrisis\_12, WST1\_12,

### Summary by start number:

#### Start 8:

- Found in 24 of 27 ( 88.9% ) 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: BBQValindra\_12 (DB), BackstagePass\_12 (DB), Bowser\_12 (DB), Bunker\_12 (DB), Chipko\_13 (DB), Coriander\_13 (DB), DirtyBoi\_13 (DB), Dmitri\_13 (DB), Doggs\_12 (DB), Eyes\_12 (DB), GEazy\_12 (DB), HannahD\_12 (DB), Hedwig\_13 (DB), Jecs\_12 (DB), Kiko\_13 (DB), MagicMan\_12 (DB), Moonflower\_13 (DB), NaLuna\_12 (DB), Opie\_12 (DB), PatriciaStar\_12 (DB), RayTheFireFly\_13 (DB), Schnabeltier\_12 (DB), TaronosaurusRx\_12 (DB), ZAYM\_12 (DB),

#### Start 9:

- Found in 2 of 27 ( 7.4% ) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: IdentityCrisis\_12 (AJ), WST1\_12 (AJ),

#### Start 11:

- Found in 1 of 27 ( 3.7% ) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Elener\_14 (singleton),

### Summary by clusters:

There are 3 clusters represented in this pham: singleton, AJ, DB,

Info for manual annotations of cluster AJ:

- Start number 9 was manually annotated 1 time for cluster AJ.

Info for manual annotations of cluster DB:

- Start number 8 was manually annotated 17 times for cluster DB.

### Gene Information:

Gene: BBQValindra\_12 Start: 7992, Stop: 8834, Start Num: 8

Candidate Starts for BBQValindra\_12:

(7, 7932), (Start: 8 @7992 has 17 MA's), (12, 8043), (22, 8295), (24, 8343), (25, 8367), (28, 8412), (37, 8523), (46, 8676), (49, 8715), (52, 8751),

Gene: BackstagePass\_12 Start: 7969, Stop: 8811, Start Num: 8

Candidate Starts for BackstagePass\_12:

(7, 7909), (Start: 8 @7969 has 17 MA's), (12, 8020), (22, 8272), (24, 8320), (25, 8344), (28, 8389), (37, 8500), (46, 8653), (49, 8692), (52, 8728),

Gene: Bowser\_12 Start: 7991, Stop: 8833, Start Num: 8

Candidate Starts for Bowser\_12:

(1, 7628), (2, 7706), (7, 7931), (Start: 8 @7991 has 17 MA's), (12, 8042), (24, 8342), (25, 8366), (26, 8375), (28, 8411), (36, 8492), (37, 8522), (46, 8675), (52, 8750),

Gene: Bunker\_12 Start: 7992, Stop: 8834, Start Num: 8

Candidate Starts for Bunker\_12:

(7, 7932), (Start: 8 @7992 has 17 MA's), (12, 8043), (22, 8295), (25, 8367), (28, 8412), (37, 8523), (49, 8715), (52, 8751),

Gene: Chipko\_13 Start: 8390, Stop: 9229, Start Num: 8

Candidate Starts for Chipko\_13:

(Start: 8 @8390 has 17 MA's), (13, 8447), (25, 8759), (28, 8804), (31, 8831), (32, 8840), (36, 8882), (37, 8912), (46, 9068), (49, 9107), (51, 9137), (56, 9206),

Gene: Coriander\_13 Start: 8389, Stop: 9228, Start Num: 8

Candidate Starts for Coriander\_13:

(Start: 8 @8389 has 17 MA's), (13, 8446), (25, 8758), (28, 8803), (32, 8839), (36, 8881), (37, 8911), (46, 9067), (51, 9136),

Gene: DirtyBoi\_13 Start: 8342, Stop: 9184, Start Num: 8

Candidate Starts for DirtyBoi\_13:

(4, 8150), (7, 8282), (Start: 8 @8342 has 17 MA's), (20, 8609), (22, 8645), (24, 8693), (28, 8762), (31, 8789), (34, 8828), (36, 8843), (37, 8873), (40, 8915), (52, 9101),

Gene: Dmitri\_13 Start: 8371, Stop: 9210, Start Num: 8

Candidate Starts for Dmitri\_13:

(Start: 8 @8371 has 17 MA's), (13, 8428), (25, 8740), (28, 8785), (31, 8812), (32, 8821), (36, 8863), (37, 8893), (46, 9049), (49, 9088), (51, 9118), (56, 9187),

Gene: Doggs\_12 Start: 8086, Stop: 8925, Start Num: 8

Candidate Starts for Doggs\_12:

(Start: 8 @8086 has 17 MA's), (13, 8143), (25, 8455), (28, 8500), (32, 8536), (36, 8578), (37, 8608), (46, 8764), (51, 8833),

Gene: Elener\_14 Start: 10098, Stop: 10871, Start Num: 11

Candidate Starts for Elener\_14:

(Start: 11 @10098 has 1 MA's), (17, 10215), (27, 10473), (40, 10626), (41, 10665), (45, 10725), (47, 10746),

Gene: Eyes\_12 Start: 7999, Stop: 8841, Start Num: 8

Candidate Starts for Eyes\_12:

(7, 7939), (Start: 8 @7999 has 17 MA's), (12, 8050), (24, 8350), (25, 8374), (26, 8383), (28, 8419), (36, 8500), (37, 8530), (46, 8683), (52, 8758),

Gene: GEazy\_12 Start: 8001, Stop: 8843, Start Num: 8

Candidate Starts for GEazy\_12:

(7, 7941), (Start: 8 @8001 has 17 MA's), (12, 8052), (24, 8352), (25, 8376), (26, 8385), (28, 8421), (37, 8532), (49, 8724), (52, 8760),

Gene: HannahD\_12 Start: 8001, Stop: 8843, Start Num: 8

Candidate Starts for HannahD\_12:

(7, 7941), (Start: 8 @8001 has 17 MA's), (12, 8052), (24, 8352), (25, 8376), (26, 8385), (28, 8421), (37, 8532), (49, 8724), (52, 8760),

Gene: Hedwig\_13 Start: 8342, Stop: 9184, Start Num: 8

Candidate Starts for Hedwig\_13:

(4, 8150), (7, 8282), (Start: 8 @8342 has 17 MA's), (20, 8609), (22, 8645), (24, 8693), (28, 8762), (34, 8828), (36, 8843), (37, 8873), (40, 8915), (52, 9101),

Gene: IdentityCrisis\_12 Start: 8516, Stop: 9319, Start Num: 9

Candidate Starts for IdentityCrisis\_12:

(6, 8441), (Start: 9 @8516 has 1 MA's), (10, 8543), (12, 8564), (14, 8588), (15, 8606), (16, 8621), (18, 8762), (21, 8801), (23, 8834), (25, 8891), (27, 8927), (28, 8933), (29, 8939), (30, 8954), (33, 8993), (35, 9011), (36, 9014), (38, 9071), (41, 9122), (42, 9155), (44, 9170), (48, 9215), (50, 9245), (53, 9266), (54, 9278), (55, 9311),

Gene: Jecs\_12 Start: 8323, Stop: 9165, Start Num: 8

Candidate Starts for Jecs\_12:

(7, 8263), (Start: 8 @8323 has 17 MA's), (12, 8374), (24, 8674), (25, 8698), (26, 8707), (28, 8743), (36, 8824), (37, 8854), (43, 8989), (46, 9007), (52, 9082),

Gene: Kiko\_13 Start: 8190, Stop: 9032, Start Num: 8

Candidate Starts for Kiko\_13:

(Start: 8 @8190 has 17 MA's), (19, 8445), (25, 8565), (28, 8610), (34, 8676), (36, 8691), (37, 8721), (49, 8913),

Gene: MagicMan\_12 Start: 8329, Stop: 9171, Start Num: 8

Candidate Starts for MagicMan\_12:

(7, 8269), (Start: 8 @8329 has 17 MA's), (12, 8380), (22, 8632), (24, 8680), (25, 8704), (28, 8749), (36, 8830), (37, 8860), (46, 9013), (49, 9052), (52, 9088),

Gene: Moonflower\_13 Start: 8394, Stop: 9233, Start Num: 8

Candidate Starts for Moonflower\_13:

(Start: 8 @8394 has 17 MA's), (13, 8451), (25, 8763), (28, 8808), (31, 8835), (32, 8844), (36, 8886), (37, 8916), (46, 9072), (51, 9141),

Gene: NaLuna\_12 Start: 8001, Stop: 8843, Start Num: 8

Candidate Starts for NaLuna\_12:

(7, 7941), (Start: 8 @8001 has 17 MA's), (12, 8052), (24, 8352), (25, 8376), (26, 8385), (28, 8421), (37, 8532), (49, 8724), (52, 8760),

Gene: Opie\_12 Start: 8346, Stop: 9188, Start Num: 8

Candidate Starts for Opie\_12:

(3, 8094), (5, 8205), (7, 8286), (Start: 8 @8346 has 17 MA's), (12, 8397), (22, 8649), (28, 8766), (37, 8877), (46, 9030), (52, 9105), (57, 9174),

Gene: PatriciaStar\_12 Start: 8007, Stop: 8846, Start Num: 8

Candidate Starts for PatriciaStar\_12:

(Start: 8 @8007 has 17 MA's), (13, 8064), (25, 8376), (28, 8421), (31, 8448), (32, 8457), (36, 8499), (37, 8529), (46, 8685), (49, 8724), (51, 8754), (56, 8823),

Gene: RayTheFireFly\_13 Start: 8395, Stop: 9234, Start Num: 8

Candidate Starts for RayTheFireFly\_13:

(Start: 8 @8395 has 17 MA's), (13, 8452), (25, 8764), (28, 8809), (31, 8836), (32, 8845), (36, 8887), (37, 8917), (46, 9073), (51, 9142),

Gene: Schnabeltier\_12 Start: 8330, Stop: 9172, Start Num: 8

Candidate Starts for Schnabeltier\_12:

(7, 8270), (Start: 8 @8330 has 17 MA's), (12, 8381), (22, 8633), (24, 8681), (25, 8705), (28, 8750), (36, 8831), (37, 8861), (46, 9014), (49, 9053), (52, 9089),

Gene: TaronosaurusRx\_12 Start: 8343, Stop: 9185, Start Num: 8

Candidate Starts for TaronosaurusRx\_12:

(7, 8283), (Start: 8 @8343 has 17 MA's), (12, 8394), (22, 8646), (24, 8694), (25, 8718), (28, 8763), (37, 8874), (46, 9027), (49, 9066), (52, 9102),

Gene: WST1\_12 Start: 8519, Stop: 9337, Start Num: 9

Candidate Starts for WST1\_12:

(6, 8444), (Start: 9 @8519 has 1 MA's), (10, 8546), (12, 8567), (14, 8591), (15, 8609), (16, 8624), (18, 8765), (21, 8804), (23, 8837), (25, 8894), (27, 8930), (28, 8936), (29, 8942), (30, 8957), (33, 8996), (35, 9014), (36, 9017), (38, 9074), (39, 9089), (41, 9140), (42, 9173), (44, 9188), (48, 9233), (50, 9263), (53, 9284), (54, 9296), (55, 9329),

Gene: ZAYM\_12 Start: 8336, Stop: 9178, Start Num: 8

Candidate Starts for ZAYM\_12:

(7, 8276), (Start: 8 @8336 has 17 MA's), (12, 8387), (22, 8639), (24, 8687), (25, 8711), (28, 8756), (37, 8867), (46, 9020), (49, 9059), (52, 9095),