

Phylogenetic tree and domain architecture diagrams for the CAI34328.1 protein family. The tree on the left shows the evolutionary relationships between 14 proteins. The diagrams on the right show the domain architecture for each protein, with domains represented by colored shapes and numbers 1-10 indicating domain positions. A legend indicates '1 = Gln'.

Protein	Domain Architecture (from left to right)
BAQ01948.1	1 (blue square), 2 (yellow diamond), 3 (red star), 4 (yellow circle), 5 (yellow square), 6 (blue circle)
CAI32957.1	1 (blue circle), 2 (yellow circle), 3 (yellow diamond), 4 (blue circle)
BAQ00957.1	1 (yellow diamond), 2 (yellow circle), 3 (blue circle), 4 (yellow square), 5 (blue circle)
CAI34641.1	1 (blue circle), 2 (yellow circle), 3 (red star), 4 (yellow circle), 5 (yellow circle), 6 (yellow circle), 7 (yellow circle), 8 (yellow circle), 9 (yellow circle), 10 (yellow circle)
CAI33309.1	1 (yellow circle), 2 (blue square), 3 (red star), 4 (yellow circle), 5 (blue circle), 6 (yellow circle), 7 (yellow circle), 8 (yellow circle), 9 (yellow circle), 10 (yellow circle)
CAI33441.1	1 (yellow circle), 2 (yellow circle), 3 (yellow circle), 4 (yellow circle), 5 (yellow circle), 6 (yellow circle), 7 (yellow circle), 8 (yellow circle), 9 (yellow circle), 10 (yellow circle)
CAI34080.1	1 (yellow circle), 2 (red star), 3 (yellow square), 4 (yellow circle), 5 (yellow circle), 6 (yellow circle), 7 (yellow circle), 8 (yellow circle), 9 (yellow circle), 10 (yellow circle)
CAI34657.1	1 (yellow circle), 2 (yellow circle), 3 (red star), 4 (yellow circle), 5 (yellow circle), 6 (yellow circle), 7 (yellow circle), 8 (yellow circle), 9 (yellow circle), 10 (yellow circle)
CAI34348.1	1 (yellow circle), 2 (yellow circle), 3 (red star), 4 (yellow circle), 5 (yellow circle), 6 (yellow circle), 7 (yellow circle), 8 (yellow circle), 9 (yellow circle), 10 (yellow circle)
CAI34310.1	1 (yellow circle), 2 (red star), 3 (yellow square), 4 (yellow circle), 5 (yellow circle), 6 (yellow circle), 7 (yellow circle), 8 (yellow circle), 9 (yellow circle), 10 (yellow circle)
CAI34286.1	1 (yellow circle), 2 (yellow circle), 3 (yellow circle), 4 (yellow circle), 5 (yellow circle), 6 (yellow circle), 7 (yellow circle), 8 (yellow circle), 9 (yellow circle), 10 (yellow circle)
CAI34519.1	1 (yellow circle), 2 (yellow circle), 3 (yellow circle), 4 (yellow circle), 5 (yellow circle), 6 (yellow circle), 7 (yellow circle), 8 (yellow circle), 9 (yellow circle), 10 (yellow circle)
CAI34328.1	1 (yellow circle), 2 (yellow circle), 3 (yellow circle), 4 (yellow circle), 5 (yellow circle), 6 (yellow circle), 7 (yellow circle), 8 (yellow circle), 9 (yellow circle), 10 (yellow circle)

Phylogenetic tree and domain architecture diagrams for the AAM27766.1 protein family. The tree shows relationships between various protein sequences, with bootstrap values indicated at the nodes. The domain architecture diagrams illustrate the domain structure of each protein, with domains represented by colored boxes and numbers indicating domain positions.

Protein Sequences and Bootstrap Values:

- AAM27766.1 (Bootstrap: 100)
- AAM27615.1 (Bootstrap: 100)
- AAZ85713.1 (Bootstrap: 100)
- AAZ28257.1 (Bootstrap: 100)
- AAM27782.1 (Bootstrap: 100)
- BAQ02138.1 (Bootstrap: 100)
- BAQ02275.1 (Bootstrap: 100)
- BAQ02259.1 (Bootstrap: 100)

Domain Architecture Diagrams:

- AAM27766.1:** 1-5-3-2-4-1-2. Domains: 1 (green triangle), 2 (blue square), 3 (green triangle), 4 (blue square), 5 (green triangle), 1 (green triangle), 2 (blue square).
- AAM27615.1:** 1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950

The figure displays a phylogenetic tree on the left and corresponding gene structure diagrams on the right for the CAI342 gene family. The tree shows the evolutionary relationships between six sequences: CAI34177.1, CAI34254.1, CAI34217.1, CAI34236.1, and CAI34198.1. The gene structure diagrams illustrate the exons (yellow circles) and introns (lines) for each sequence. The diagrams for CAI34177.1 and CAI34254.1 show a similar structure with 5 exons. The diagrams for CAI34217.1, CAI34236.1, and CAI34198.1 show a more complex structure with 6 exons, including a red star symbol in the intron between the 4th and 5th exons, indicating a specific feature or mutation. The diagrams are labeled with 'CAI342' and 'CAI342' in the top right corner.

CAI34124.1

CAI34150.1

Phylogenetic tree and domain architecture of the protein family. The tree shows relationships between sequences: BAQ00795.1, ACD37046.1, ACD37037.1, BAQ01659.1, AFW04847.1, BAQ02088.1, ACA24754.1, and ACA24764.1. Domain architectures are shown as linear maps with colored boxes representing different domains. Key features include:

- BAQ00795.1:** Contains a *T=Qip* domain (yellow circle) and a *T=Qip* domain (yellow circle).
- ACD37046.1:** Contains a *T=L-Ala* domain (yellow circle) and a *T=L-Ala* domain (yellow circle).
- ACD37037.1:** Contains a *T=L-Ala* domain (yellow circle) and a *T=L-Ala* domain (yellow circle).
- BAQ01659.1:** Contains a *T=L-Ala* domain (yellow circle) and a *T=L-Ala* domain (yellow circle).
- AFW04847.1:** Contains a *T=L-Ala* domain (yellow circle) and a *T=L-Ala* domain (yellow circle).
- BAQ02088.1:** Contains a *T=L-Ala* domain (yellow circle) and a *T=L-Ala* domain (yellow circle).
- ACA24754.1:** Contains a *T=L-Ala* domain (yellow circle) and a *T=L-Ala* domain (yellow circle).
- ACA24764.1:** Contains a *T=L-Ala* domain (yellow circle) and a *T=L-Ala* domain (yellow circle).